

FLOOD INSURANCE STUDY

VOLUME 4 OF 6



BERGEN COUNTY, NEW JERSEY (ALL JURISDICTIONS)

COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER	COMMUNITY NAME	COMMUNITY NUMBER
ALLENDALE, BOROUGH OF	340019	HAWORTH, BOROUGH OF	340042	RIDGEFIELD, BOROUGH OF	340065
ALPINE, BOROUGH OF*	340581	HILLSDALE, BOROUGH OF	340043	RIDGEFIELD PARK, VILLAGE OF	340066
BERGENFIELD, BOROUGH OF	340020	HO-HO-KUS, BOROUGH OF	340044	RIDGEWOOD, VILLAGE OF	340067
BOGOTA, BOROUGH OF	340021	LEONIA, BOROUGH OF	340045	RIVER EDGE, BOROUGH OF	340068
CARLSTADT, BOROUGH OF	340022	LITTLE FERRY, BOROUGH OF	340046	RIVER VALE, TOWNSHIP OF	340069
CLIFFSIDE PARK, BOROUGH OF*	340582	LODI, BOROUGH OF	340047	ROCHELLE PARK, TOWNSHIP OF	340070
CLOSTER, BOROUGH OF	340023	LYNDHURST, TOWNSHIP OF	340048	ROCKLEIGH, BOROUGH OF	340071
CRESSKILL, BOROUGH OF	340024	MAHWAH, TOWNSHIP OF	340049	RUTHERFORD, BOROUGH OF	340072
DEMAREST, BOROUGH OF	340025	MAYWOOD, BOROUGH OF	340050	SADDLE BROOK, TOWNSHIP OF	340074
DUMONT, BOROUGH OF	340026	MIDLAND PARK, BOROUGH OF	340051	SADDLE RIVER, BOROUGH OF	340073
EAST RUTHERFORD, BOROUGH OF	340028	MONTVALE, BOROUGH OF	340052	SOUTH HACKENSACK, TOWNSHIP OF	340515
EDGEWATER, BOROUGH OF	340029	MOONACHIE, BOROUGH OF	340053	TEANECK, TOWNSHIP OF	340075
ELMWOOD PARK, BOROUGH OF	340500	NEW JERSEY MEADOWLANDS COMMISSION	340570	TENAFLY, BOROUGH OF	340076
EMERSON, BOROUGH OF	340030	NEW MILFORD, BOROUGH OF	340054	TETERBORO, BOROUGH OF*	340537
ENGLEWOOD, CITY OF	340031	NORTH ARLINGTON, BOROUGH OF	340055	UPPER SADDLE RIVER, BOROUGH OF	340077
ENGLEWOOD CLIFFS, BOROUGH OF*	340580	NORTHVALE, BOROUGH OF	340056	WALDWICK, BOROUGH OF	340078
FAIR LAWN, BOROUGH OF	340033*	NORWOOD, BOROUGH OF	340057	WALLINGTON, BOROUGH OF	340079
FORT LEE, BOROUGH OF*	340035	OAKLAND, BOROUGH OF	345309	WASHINGTON, TOWNSHIP OF	340080
FAIRVIEW, BOROUGH OF	340034	OLD TAPPAN, BOROUGH OF	340059	WESTWOOD, BOROUGH OF	340081
FRANKLIN LAKES, BOROUGH OF	340036	ORADELL, BOROUGH OF	340060	WOODCLIFF LAKE, BOROUGH OF	340082
GARFIELD, CITY OF	340037	PALISADES PARK, BOROUGH OF	340061	WOOD-RIDGE, BOROUGH OF	340083
GLEN ROCK, BOROUGH OF	340038	PARAMUS, BOROUGH OF	340062	WYCKOFF, TOWNSHIP OF	340084
HACKENSACK, CITY OF	340039	PARK RIDGE, BOROUGH OF	340063		
HARRINGTON PARK, BOROUGH OF	340040	RAMSEY, BOROUGH OF	340064		
HASBROUCK HEIGHTS, BOROUGH OF	340041				

*No Special Flood Hazard Areas Identified

REVISED:
AUGUST 28, 2019



FLOOD INSURANCE STUDY NUMBER
34003CV004B

NOTICE TO
FLOOD INSURANCE STUDY USERS

Communities participating in the National Flood Insurance Program (NFIP) have established repositories of flood hazard data for floodplain management and flood insurance purposes. This Flood Insurance Study (FIS) may not contain all available data. It is advisable to contact the FEMA Library for any additional data.

Part or all of this FIS may be revised and republished at any time. In addition, part of this FIS may be revised by the Letter of Map Revision process, which does not involve republication or redistribution of the FIS. It is, therefore, the responsibility of the user to consult with community officials and to check the community repository or the FEMA Map Service Center to obtain the most current FIS components.

Initial Countywide FIS Effective Date: September 20, 1995

Revised Countywide FIS Dates:	December 8, 1998 - to add Base Flood Elevations and Special Flood Hazard Areas; and to update Base Flood elevations, Special Flood Hazard Areas, and zone designations.
	September 30, 2005 - to update Base Flood Elevations and Special Flood Hazard Areas; and to reflect updated topographic information.
	August 28, 2019 – to update Base Flood Elevations and Special Flood Hazard Areas; and to change vertical datum to NAVD88.

REVISED:
AUGUST 28, 2019

TABLE OF CONTENTS – VOLUME 1 – August 28, 2019

	<u>Page</u>
1.0 <u>INTRODUCTION</u>	1
1.1 Purpose of Study	1
1.2 Authority and Acknowledgments	2
1.3 Coordination	16
2.0 <u>AREA STUDIED</u>	18
2.1 Scope of Study	18
2.2 Community Description	22
2.3 Principal Flood Problems	24
2.4 Flood Protection Measures	28
3.0 <u>ENGINEERING METHODS</u>	30
3.1 Hydrologic Analyses	31
3.2 Hydraulic Analyses	59
3.3 Coastal Analysis	79
3.4 Vertical Datum	84
4.0 <u>FLOODPLAIN MANAGEMENT APPLICATIONS</u>	85
4.1 Floodplain Boundaries	86
4.2 Floodways	87

TABLE OF CONTENTS - VOLUME 1 - continued

FIGURES

	<u>Page</u>
Figure 1 – Sparkill Creek Location	21
Figure 2 - Floodway Schematic	89

TABLES

Table 1 - Revised Analyses Authority and Acknowledgments for the September 20, 1995, FIS	14
Table 2 - Revised Analyses Authority and Acknowledgments for the August 28, 2019 Countywide Revision	15
Table 3 – Initial and Final CCO Meetings Prior to September 20, 1995	16
Table 4 - Streams Studied by Detailed Methods Prior to the August 28, 2019 Countywide Revision	19
Table 5 - Limits of Detailed Study for the August 28, 2019 Countywide Revision	19
Table 6 - Stream Gage Information	33
Table 7 - Streams Studied Using Log-Pearson Type III and Gages Used	34
Table 8 - Summary of Discharges	39
Table 9 - Summary of Lake Stillwater Elevations	59
Table 10 - Summary of Roughness Coefficients in Previous Studies	64
Table 11 - Summary of Roughness Coefficients for the August 28, 2019 Countywide Revision	68
Table 12 - Limited Detailed Flood Hazard Data for the August 28, 2019 Countywide Revision	70
Table 13 - Summary of Coastal Stillwater Elevations	81
Table 14 – Countywide Vertical Datum Conversion	85

TABLE OF CONTENTS – VOLUME 2 – August 28, 2019

	<u>Page</u>
5.0 <u>INSURANCE APPLICATIONS</u>	163
6.0 <u>FLOOD INSURANCE RATE MAP</u>	164
7.0 <u>OTHER STUDIES</u>	172
8.0 <u>LOCATION OF DATA</u>	172
9.0 <u>BIBLIOGRAPHY AND REFERENCES</u>	172

TABLES

Table 15 - Floodway Data	90
Table 16 - Incorporated Letters of Map Change (LOMCs)	165
Table 17 - Community Map History	166

TABLE OF CONTENTS - VOLUME 3 – August 28, 2019

EXHIBITS

Exhibit 1 - Flood Profiles	
Allendale Brook	Panels 01P-03P
Allerman Brook/Pond Brook	Panels 04P-06P
Pond Brook	Panels 07P-12P
Bear Brook	Panels 13P-19P
Beaver Dam Brook	Panel 20P
Behnke Brook	Panels 21P-23P
Blanch Brook	Panels 24P-26P
Charlies Creek	Panel 27P
Cherry Brook	Panels 28P-30P
Coalberg Brook	Panels 31P-32P
Coalberg Brook Tributary	Panel 33P
Coles Brook	Panels 34P-38P
Cresskill Brook	Panels 39P-40P
Darlington Brook Tributary	Panels 41P-42P
Deep Voll Brook	Panels 43P-45P
Demarest Avenue Tributary	Panel 46P
Demarest Brook	Panels 47P-48P
Diamond Brook	Panels 49P-51P
Dorotockeys Run	Panels 52P-58P
Dwars Kill	Panels 59P-61P
East Branch Saddle River	Panels 62P-63P
Echo Glen Brook	Panels 64P-67P

TABLE OF CONTENTS - VOLUME 3 – continued

EXHIBITS - continued

Exhibit 1 - Flood Profiles (continued)

Fairview Brook	Panel 68P
Fieldstone Brook	Panels 69P-70P
Flat Rock Brook	Panels 71P-76P
Fleischer Brook	Panels 77P-78P
French's Creek	Panels 79P-83P
Goffle Brook	Panels 84P-91P
Goffle Brook Tributary	Panel 92P

TABLE OF CONTENTS - VOLUME 4 – August 28, 2019

EXHIBITS - continued

Exhibit 1 - Flood Profiles (continued)

Hackensack River	Panels 93P-106P
Haunsmans Ditch	Panels 107P-108P
Henderson Brook	Panels 109P-110P
Herring Brook	Panels 111P-113P
Hillsdale Brook	Panels 114P-120P
Hirschfeld Brook	Panels 121P-129P
Hirschfeld Brook Tributary	Panels 130P-134P
Ho-Ho-Kus Brook	Panels 135P-144P
Ho-Ho-Kus Brook Tributary	Panels 145P-146P
Holdrum Brook	Panels 147P-151P
Jordan Brook	Panel 152P
Kips Brook	Panels 153P-156P
Kroners Brook	Panels 157P-159P
Laurel Brook	Panels 160P-161P
Mahwah River	Panel 162P
Mannings Brook	Panels 163P-164P
Masonicus Brook	Panels 165P-175P
Metzlers Creek	Panels 176P-177P
Mill Brook	Panels 178P-182P

TABLE OF CONTENTS – VOLUME 5 – August 28, 2019

EXHIBITS - continued

Exhibit 1 - Flood Profiles (continued)

Muddy Creek	Panels 183P-185P
Musquapsink Brook	Panels 186P-193P
Musquapsink Brook By-pass	Panel 194P
Norwood Brook	Panels 195P-196P
Oost Val Brook	Panels 197P-199P
Overpeck Creek	Panels 200P-207P

TABLE OF CONTENTS – VOLUME 5 – continued

EXHIBITS - continued

Exhibit 1 - Flood Profiles (continued)

Tributary to Overpeck Creek	Panel 208P
Pascack Brook	Panels 209P-217P
Passaic River	Panels 218P-223P
Pine Brook	Panel 224P
Pleasant Brook	Panels 225P-229P
Pleasant Brook Tributary	Panels 230P-234P
Ramapo River	Panels 235P-244P
Ramapo River Left Diversion Channel	Panel 245P
Ramapo River Right Diversion Channel	Panel 246P
Tributary 1 to Ramapo River	Panels 247P
Tributary 2 to Ramapo River	Panels 248P-249P
Ramsey Brook	Panels 250P-261P
Reservoir Brook	Panels 262P-263P
Rivervale Brook	Panels 264P-265P
Saddle Brook	Panels 266P-268P

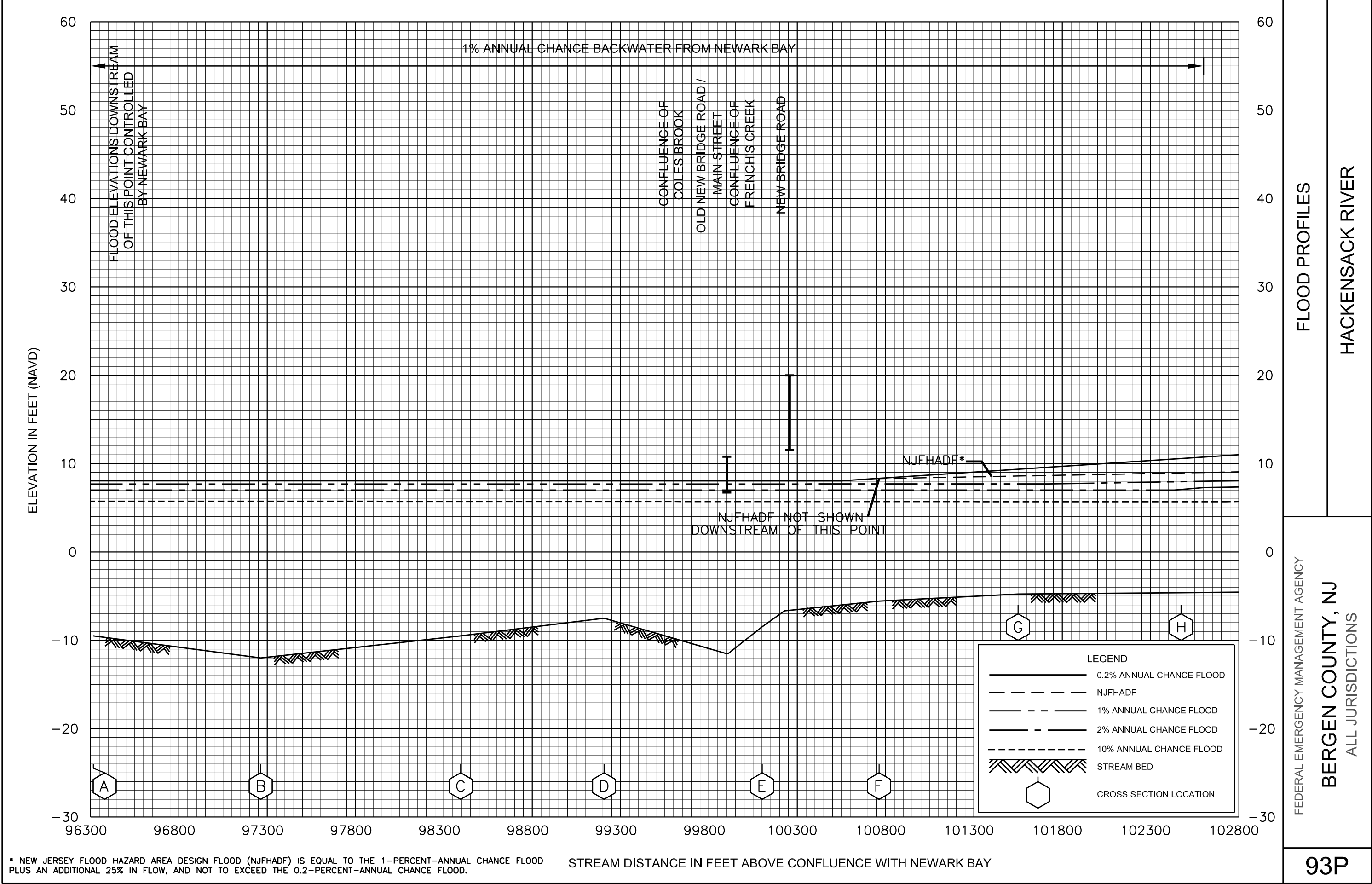
TABLE OF CONTENTS – VOLUME 6 – August 28, 2019

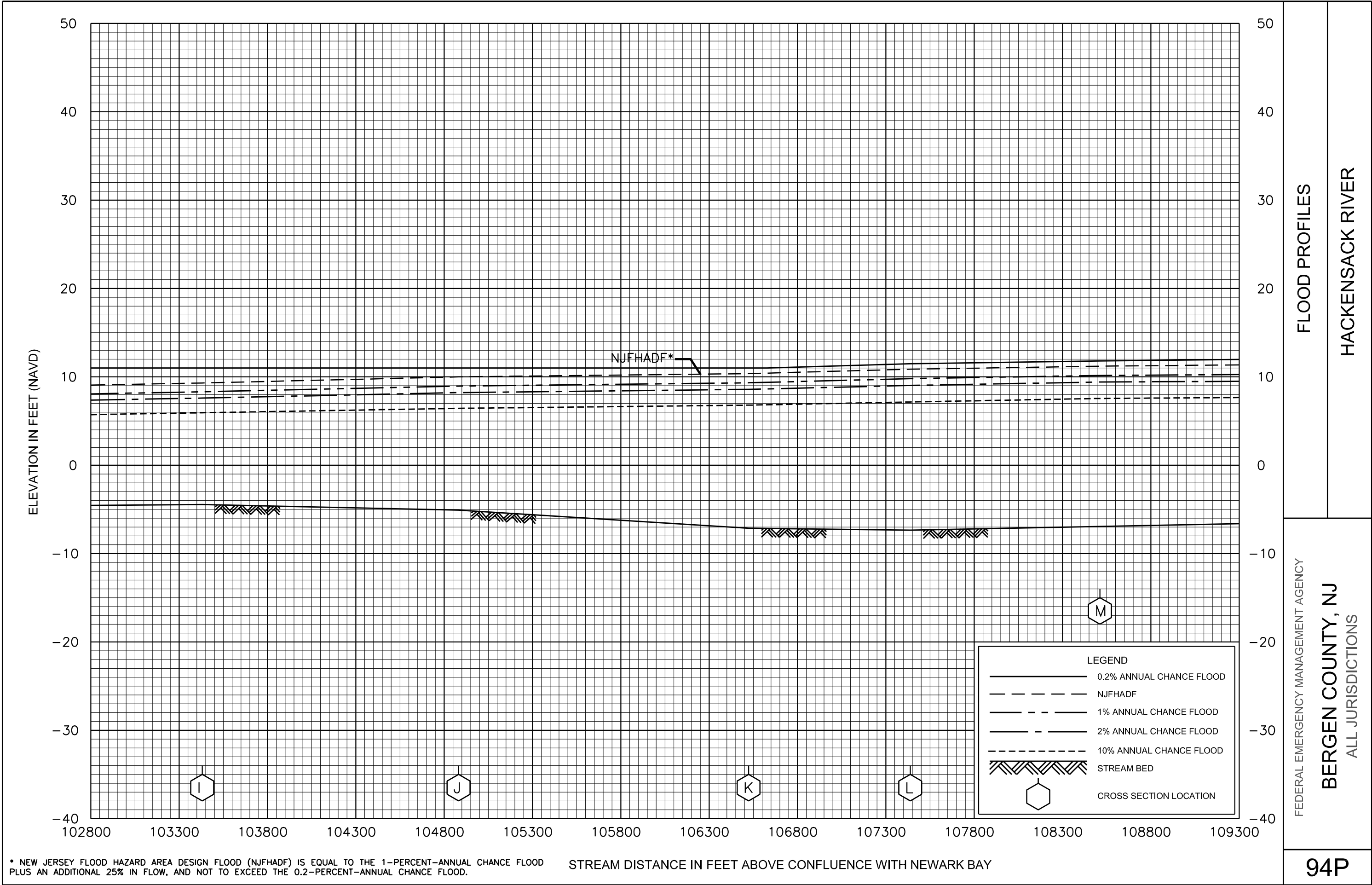
EXHIBITS - continued

Exhibit 1 - Flood Profiles (continued)

Saddle River	Panels 269P-283P
Sparkill Brook	Panels 284P-287P
Sparkill Creek	Panel 288P
Sparrow Bush Brook	Panels 289P-290P
Sprout Brook	Panels 291P-300P
Stateline Brook	Panel 301P
Steinals Ditch	Panels 302P-304P
Tandy Brook	Panels 305P-307P
Tappan Run	Panels 308P-310P
Teaneck Creek	Panels 311P-312P
Tenakill Brook	Panels 313P-322P
Township Brook	Panel 323P
Valentine Brook	Panels 324P-326P
Valentine Brook Tributary No. 1	Panel 327P
Valentine Brook Tributary No. 2	Panels 328P-330P
Van Saun Mill Brook	Panels 331P-335P
West Branch Saddle River	Panels 336P-339P
Westdale Brook	Panel 340P
Wolf Creek	Panels 341P-346P

Exhibit 2 - Flood Insurance Rate Map Index
Flood Insurance Rate Map

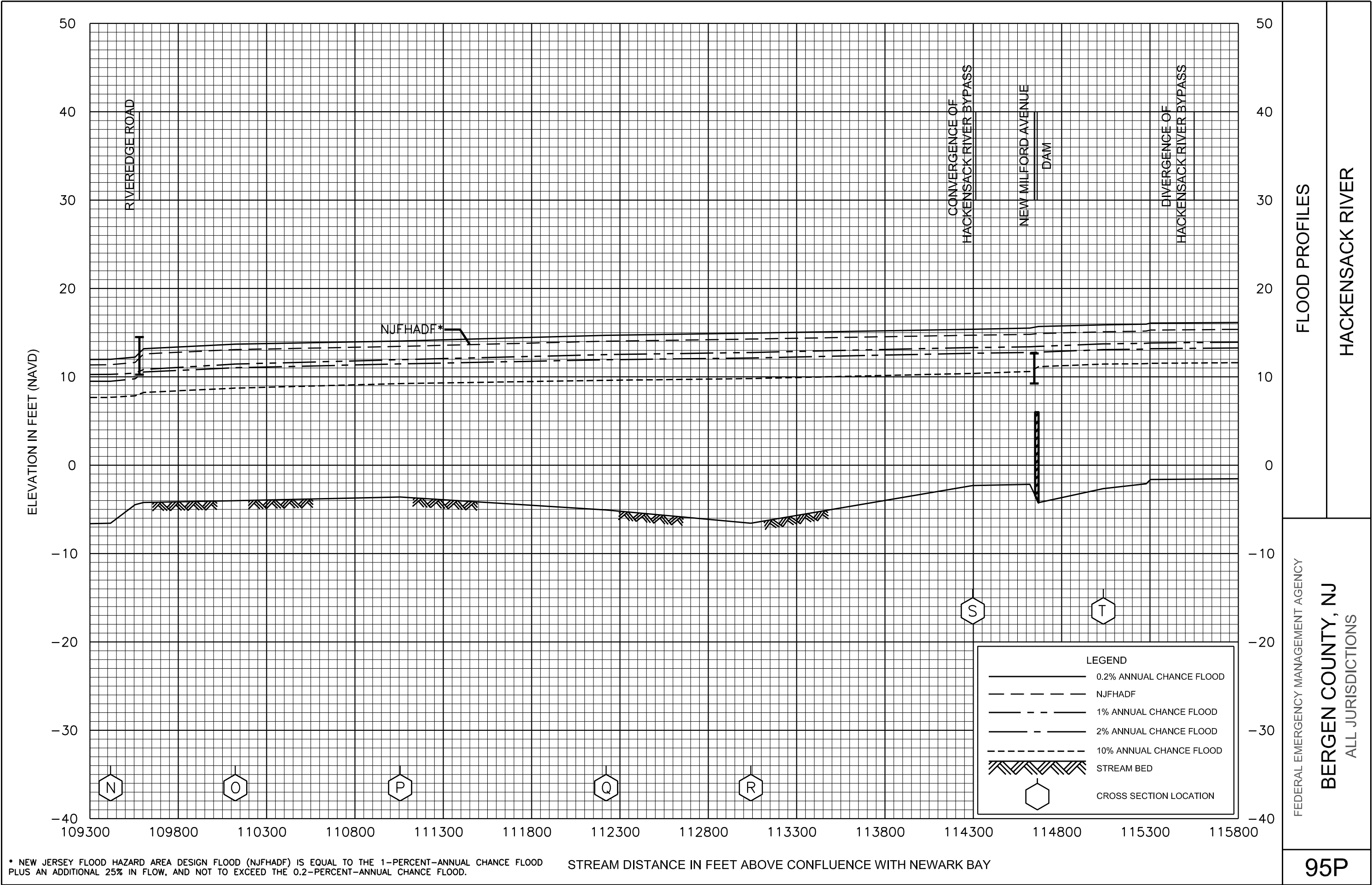




* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

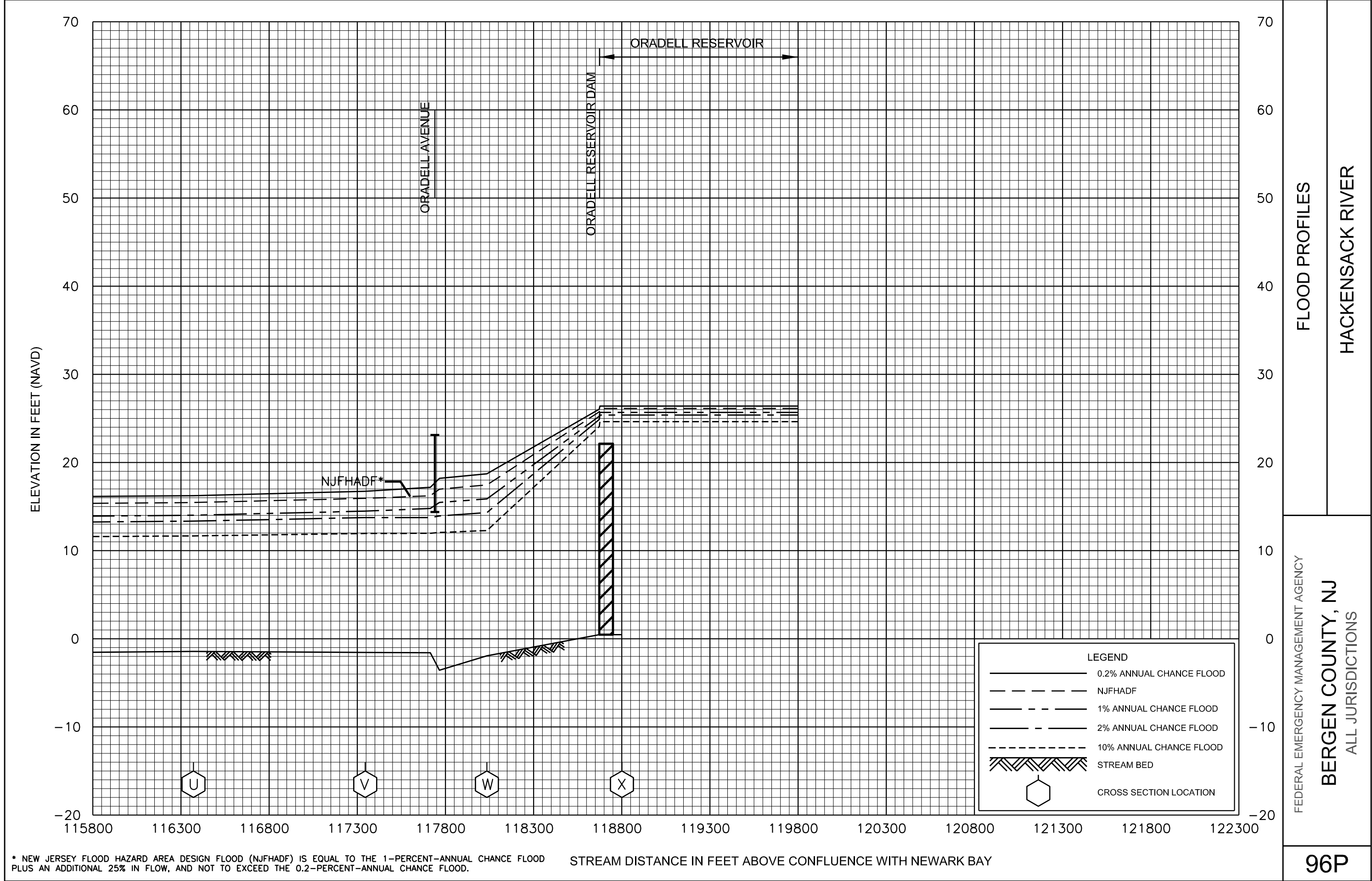
FLOOD PROFILES
HACKENSACK RIVER

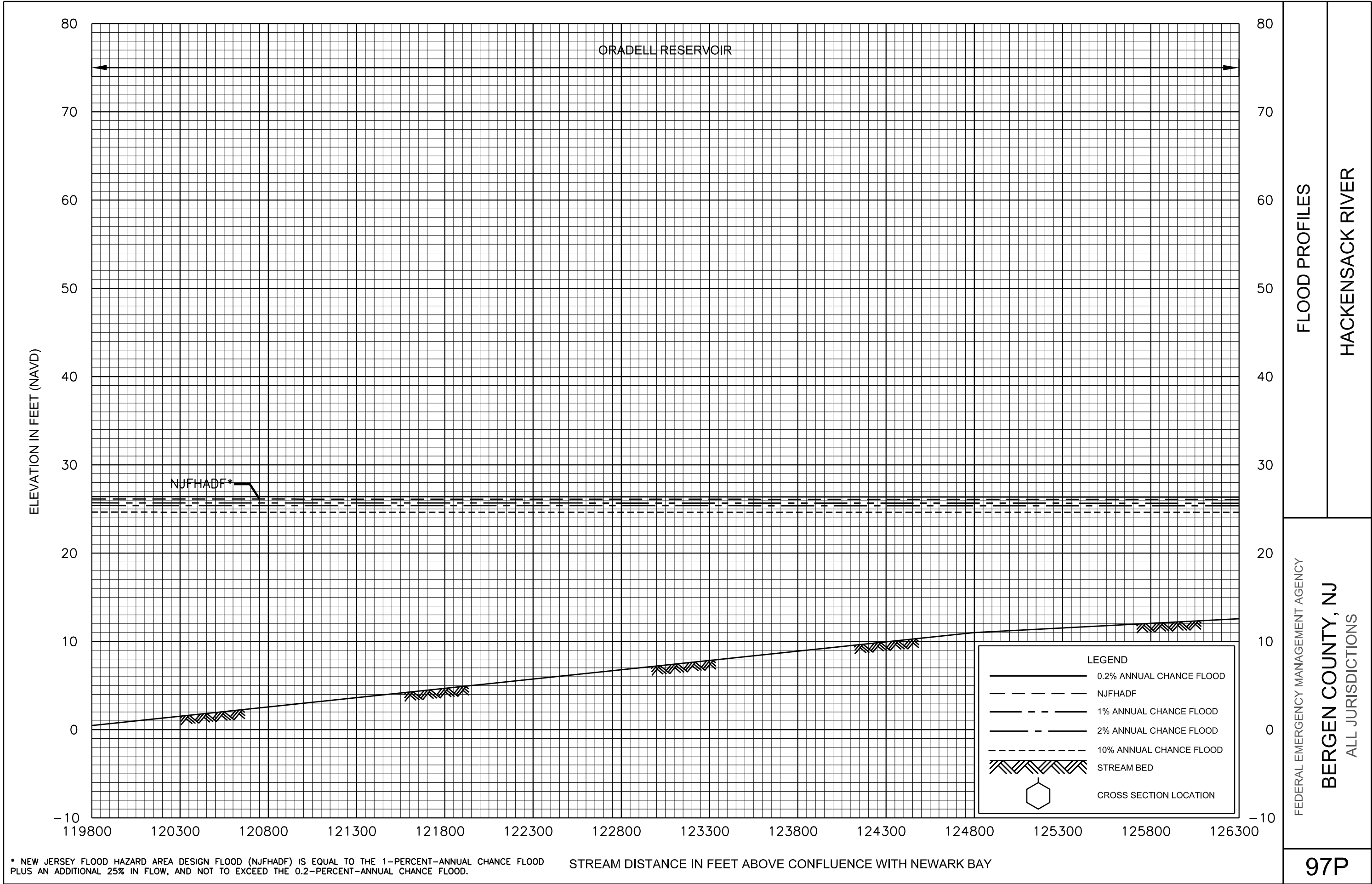
FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
ALL JURISDICTIONS

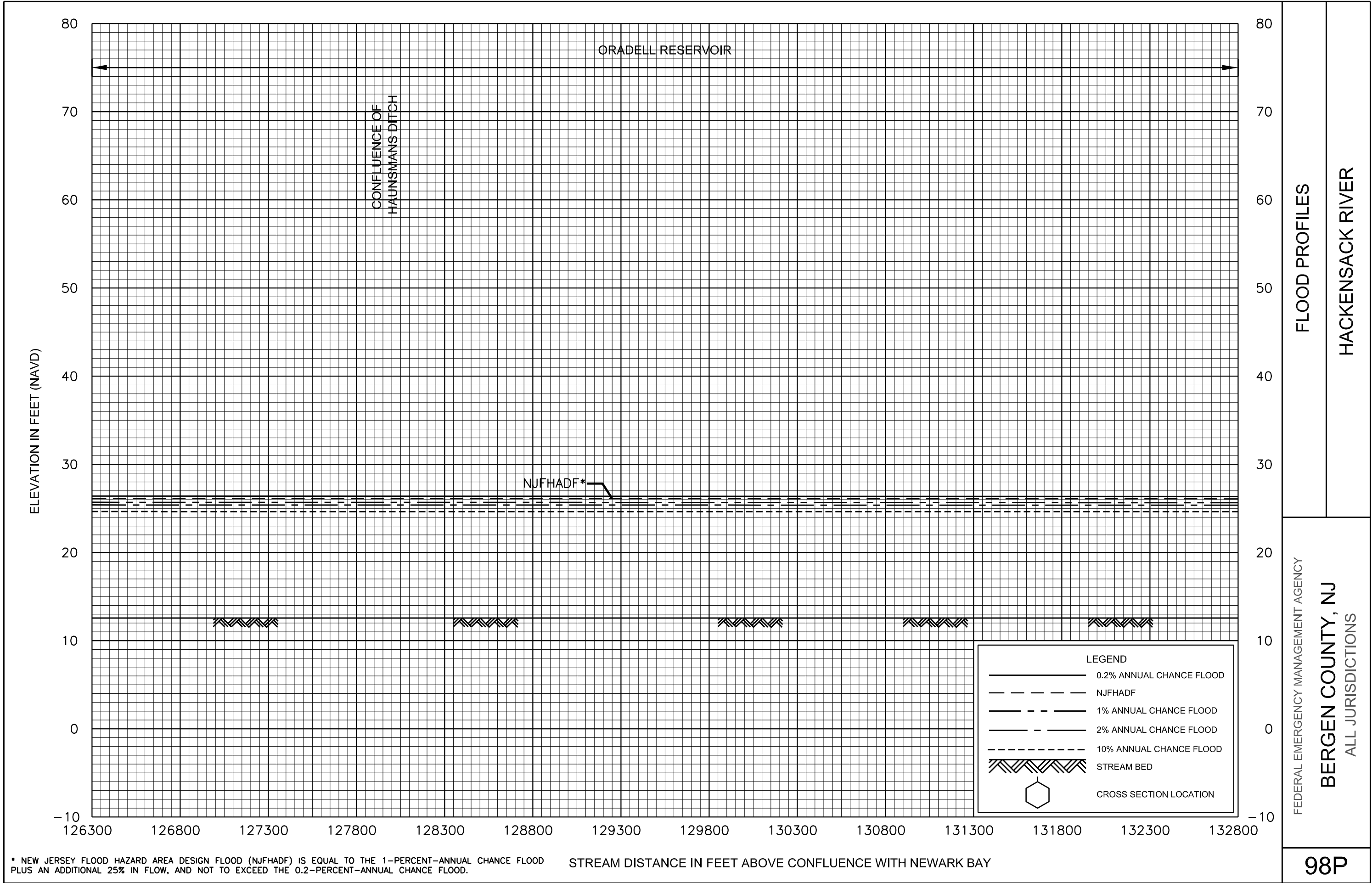


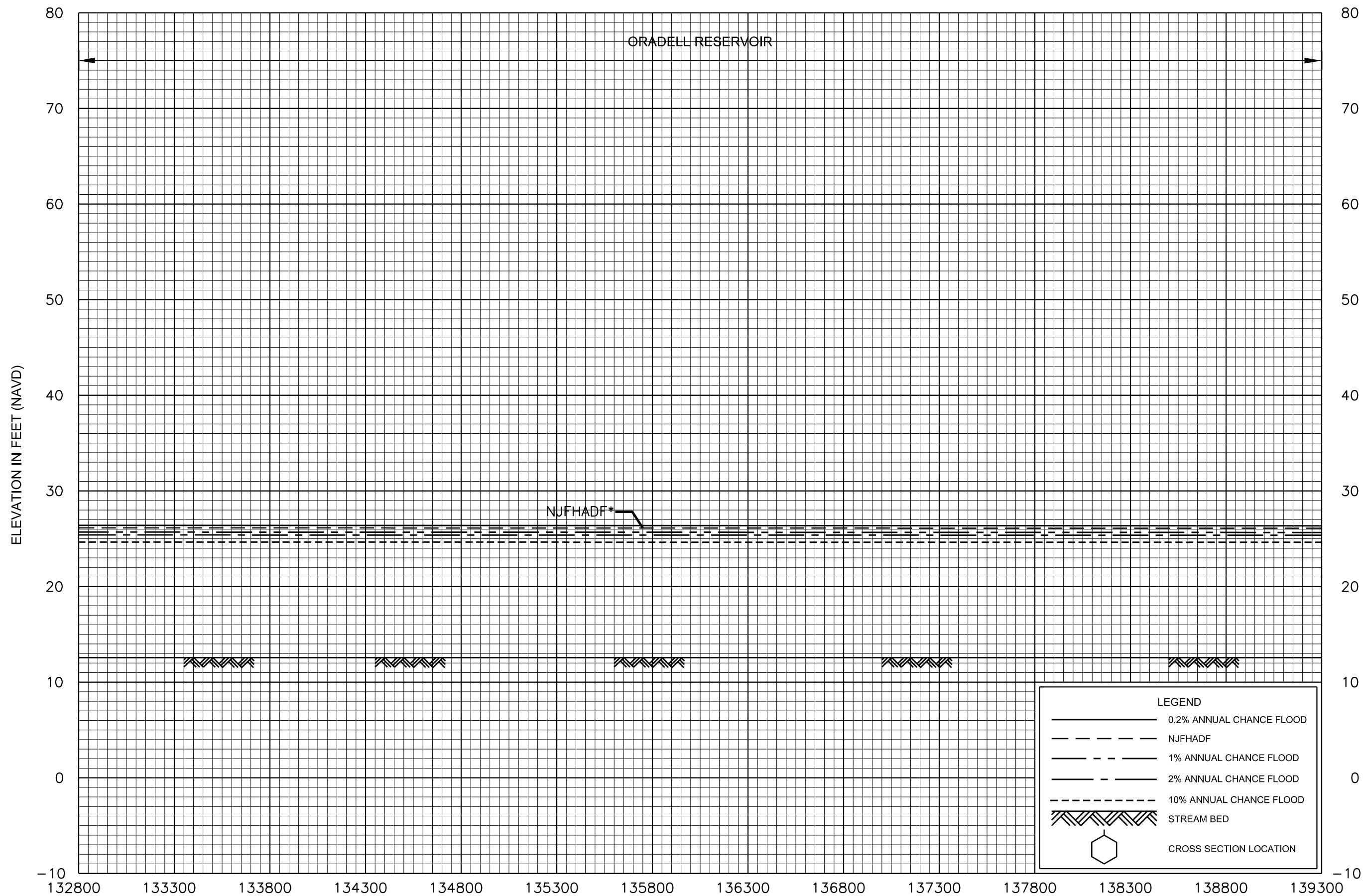
FLOOD PROFILES
HACKENSACK RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
ALL JURISDICTIONS









ORADELL RESERVOIR

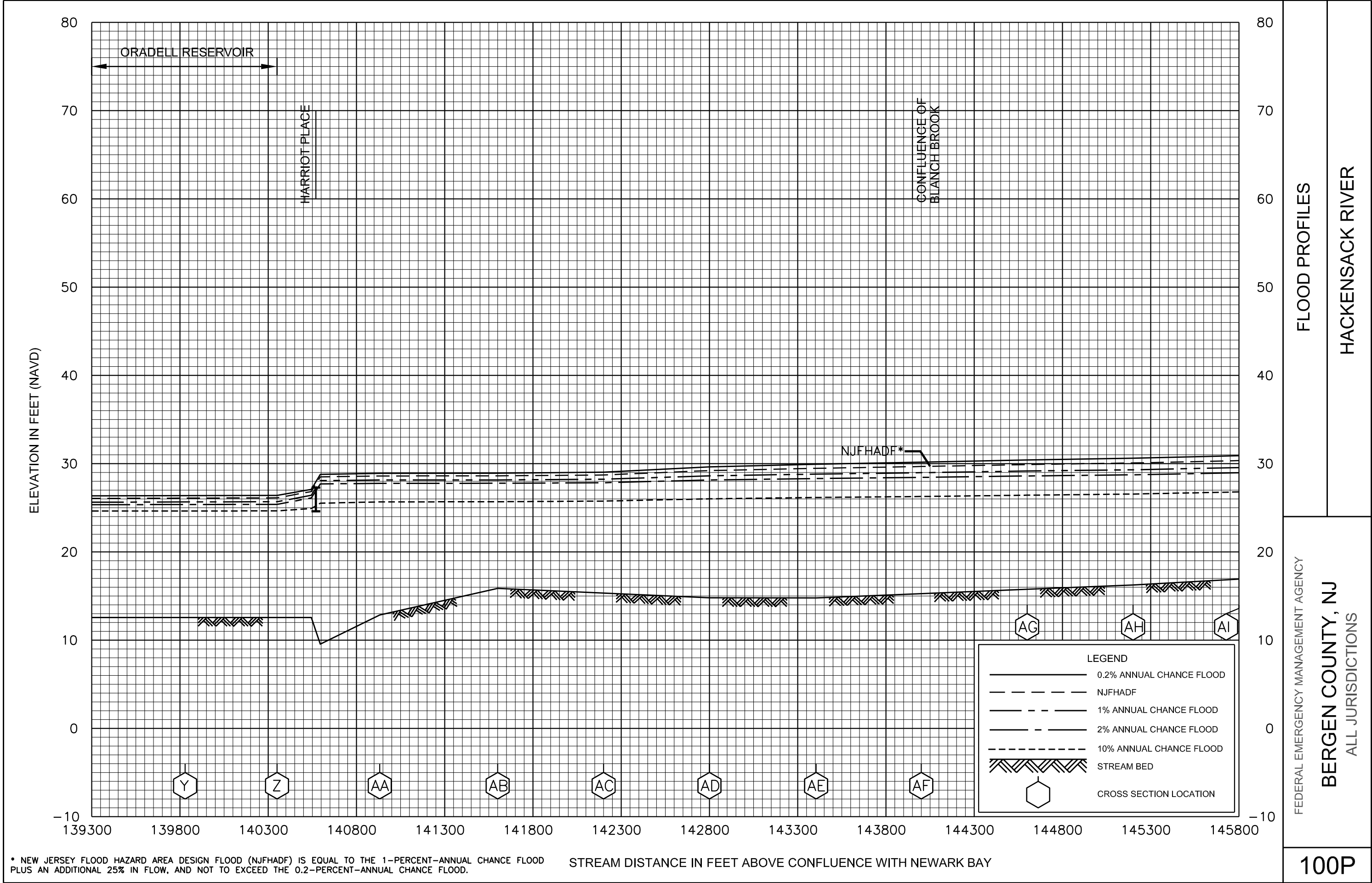
NUFHADF*.

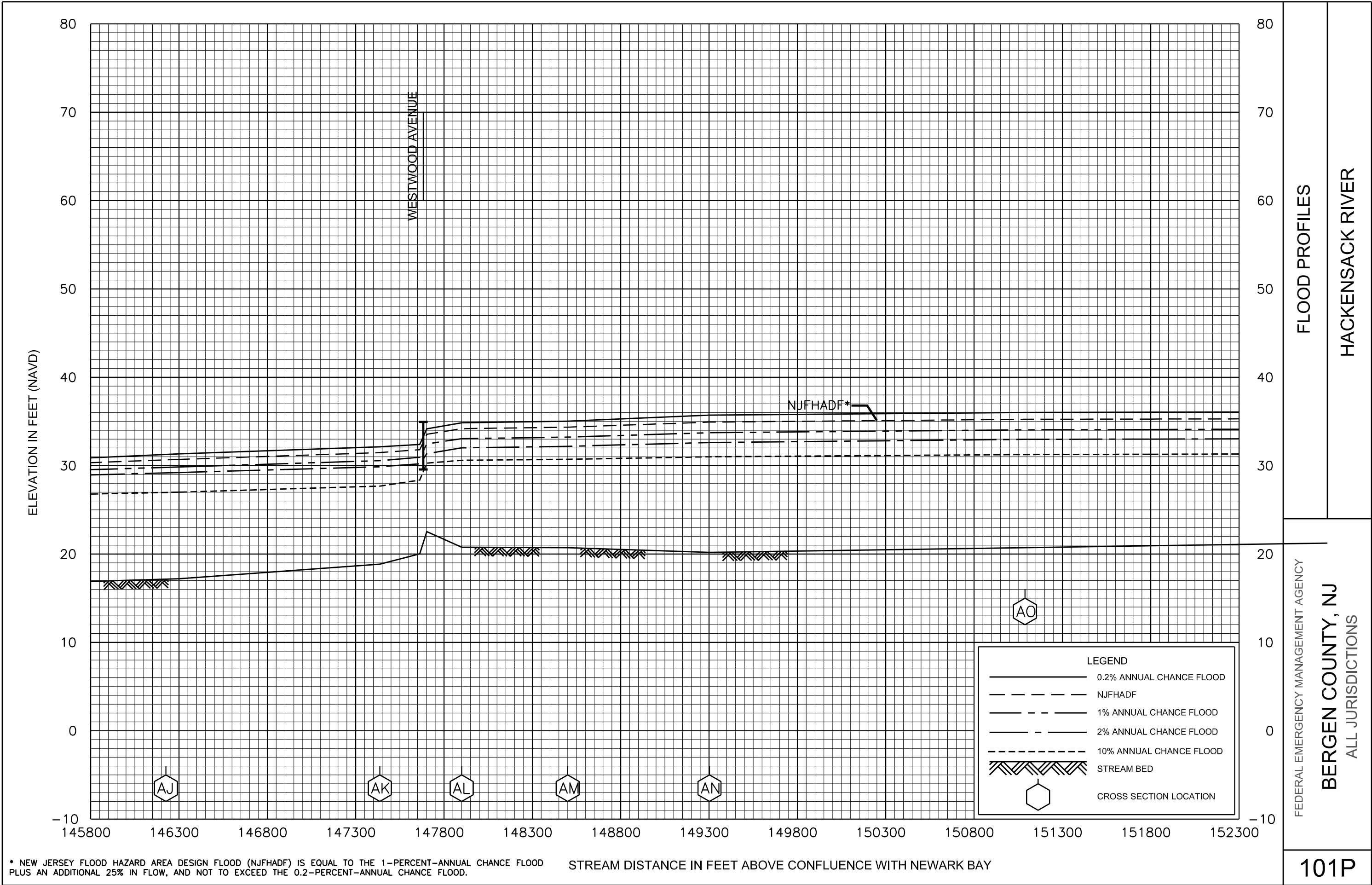
LEGEND

FLOOD PROFILES

BERGEN COUNTY, NJ
ALL JURISDICTIONS

HACKENSACK RIVER





* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH NEWARK BAY

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH NEWARK BAY

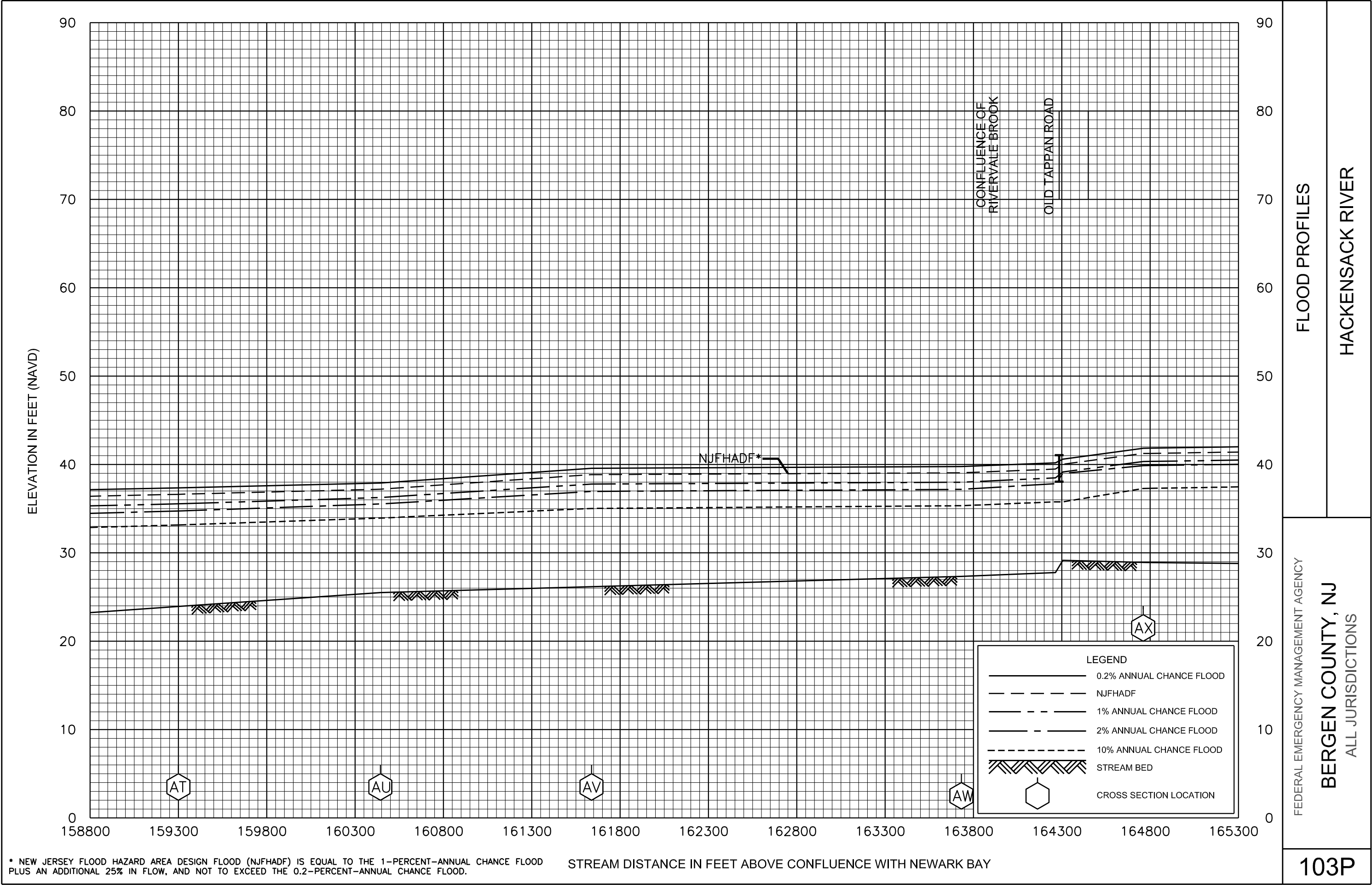
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
ALL JURISDICTIONS

FLOOD PROFILES

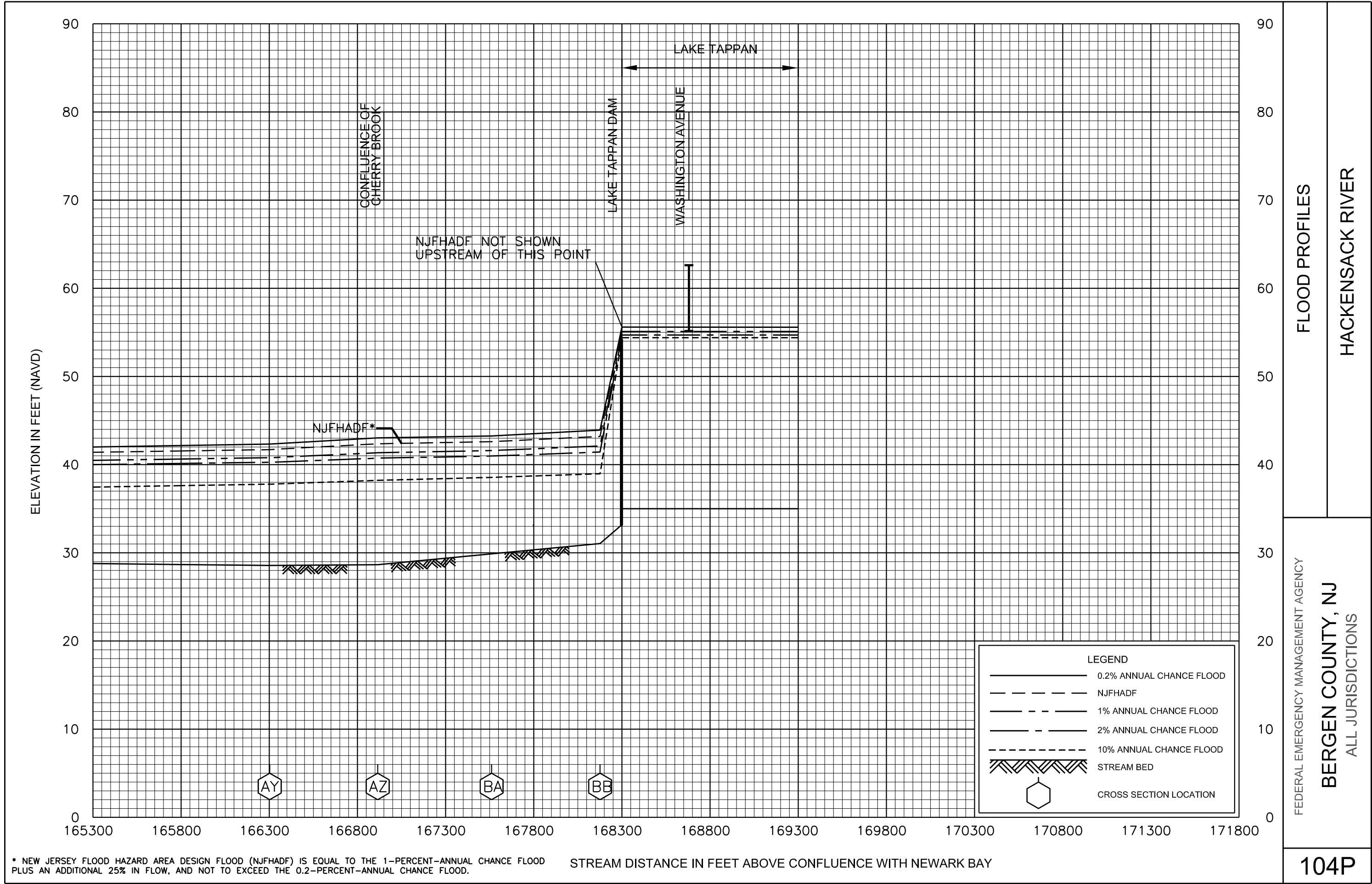
HACKENSACK RIVER

102P



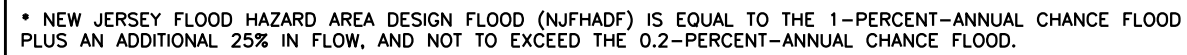
FLOOD PROFILES
HACKENSACK RIVER

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
ALL JURISDICTIONS



* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH NEWARK BAY



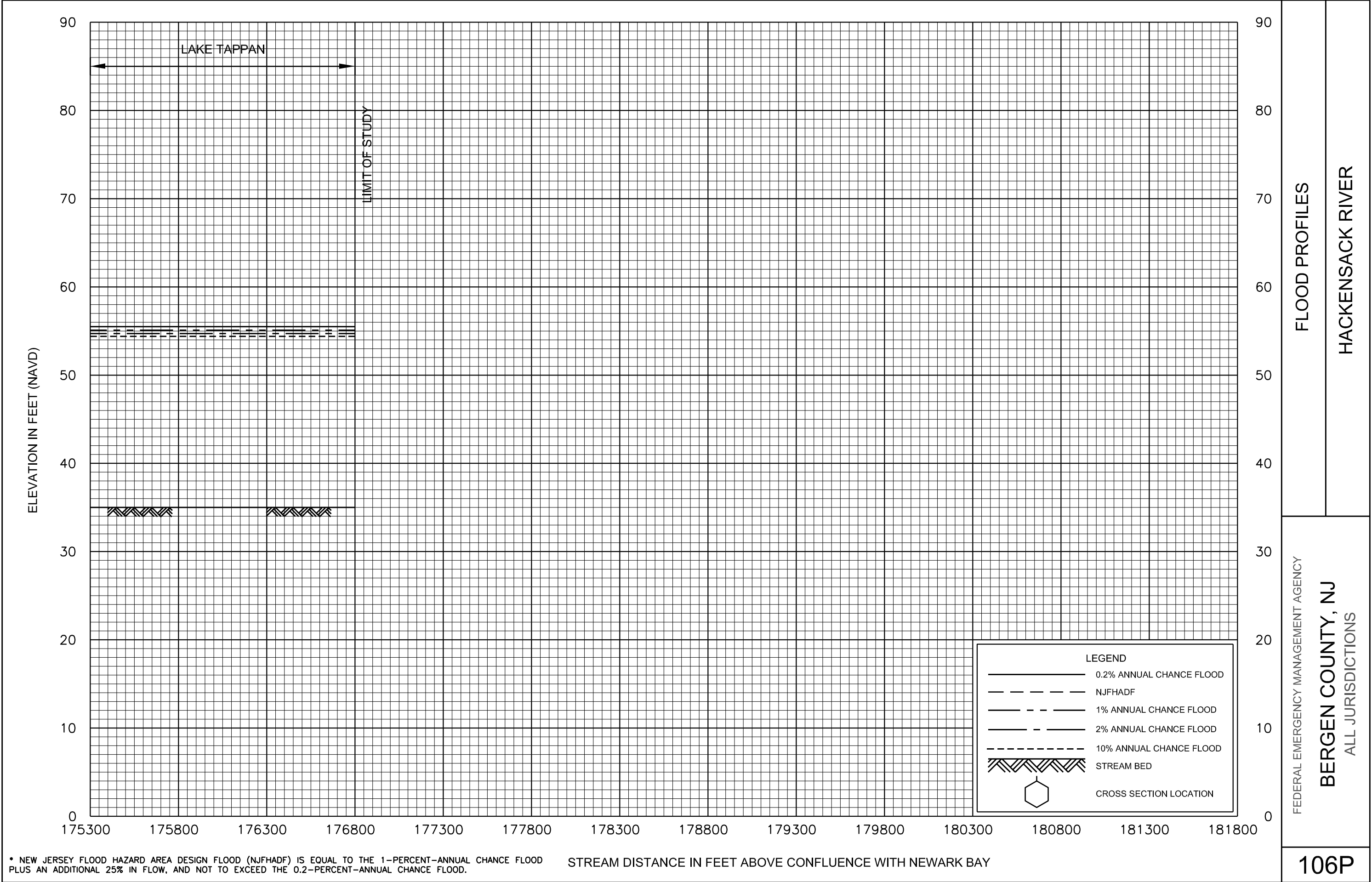
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
ALL JURISDICTIONS

FLOOD PROFILES

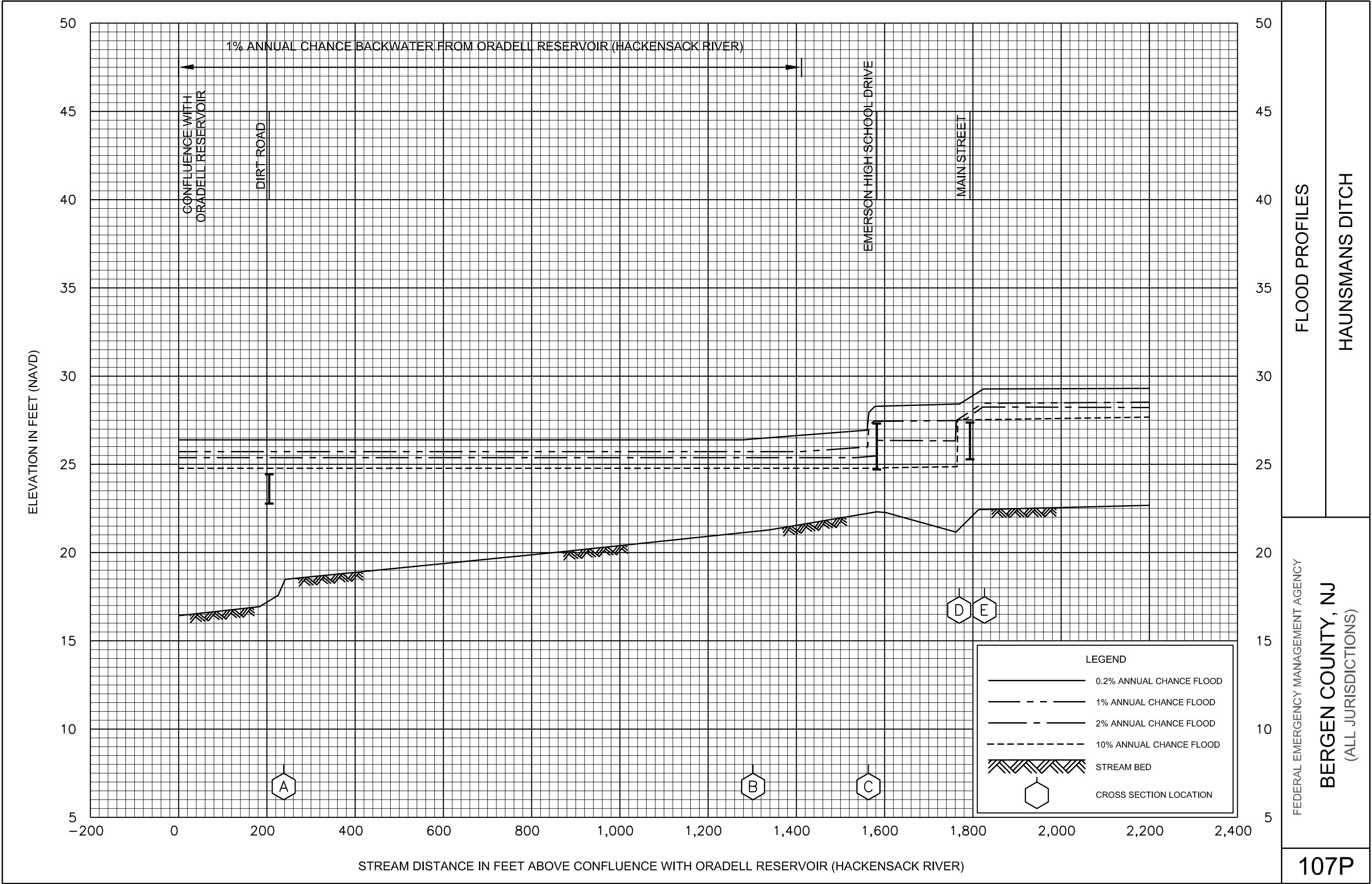
HACKENSACK RIVER

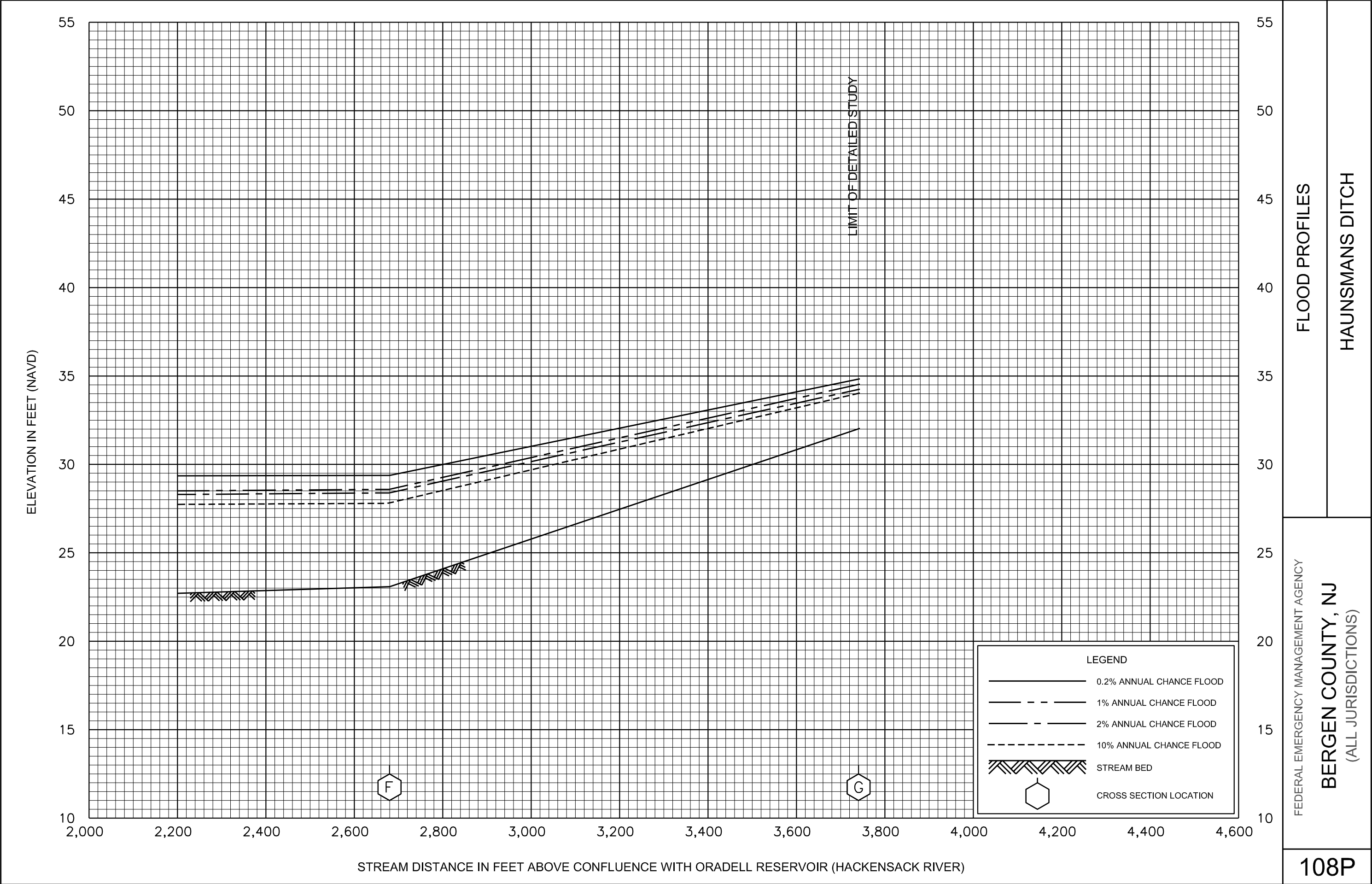
105P



* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH NEWARK BAY



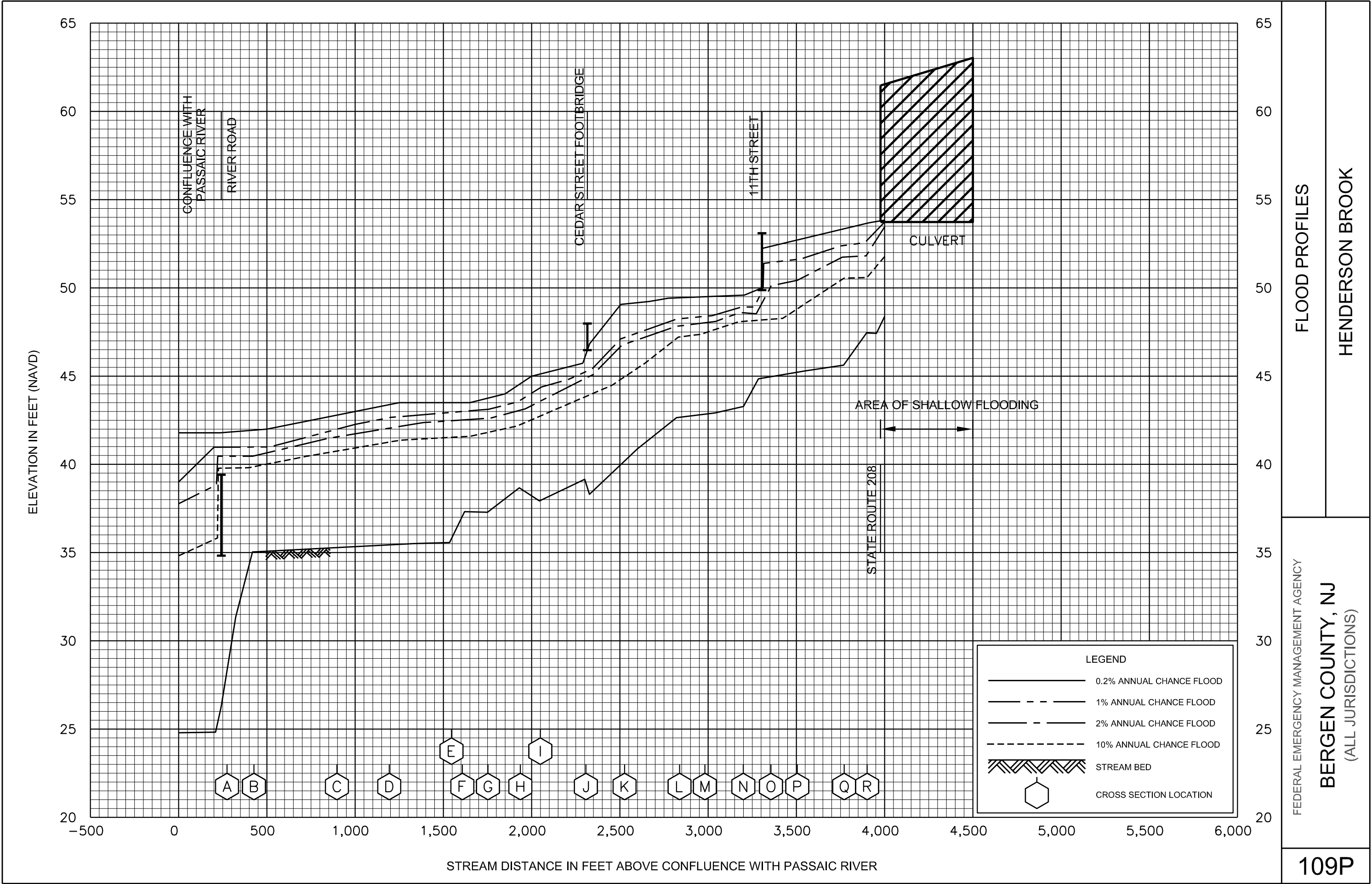


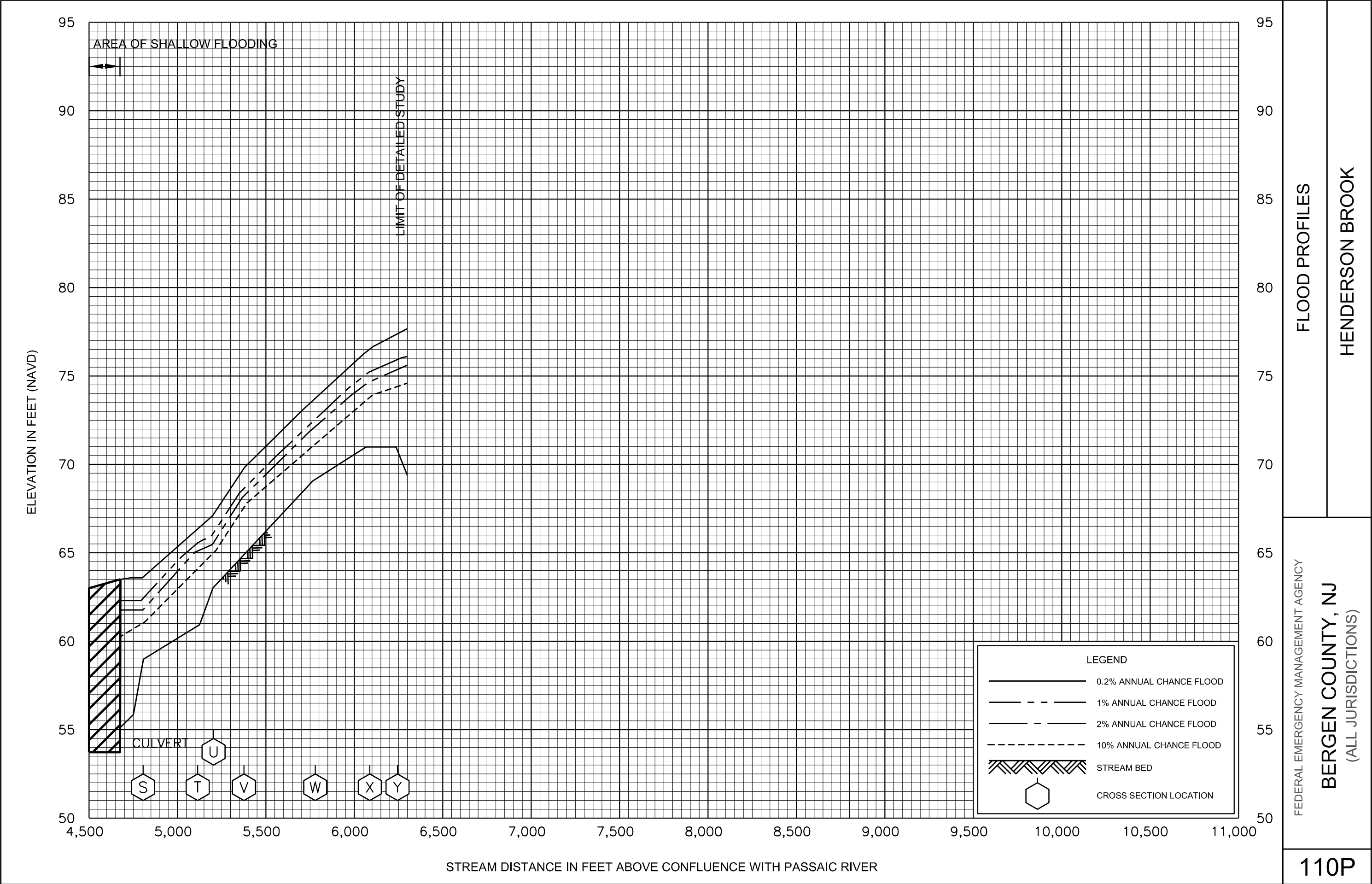
FLOOD PROFILES

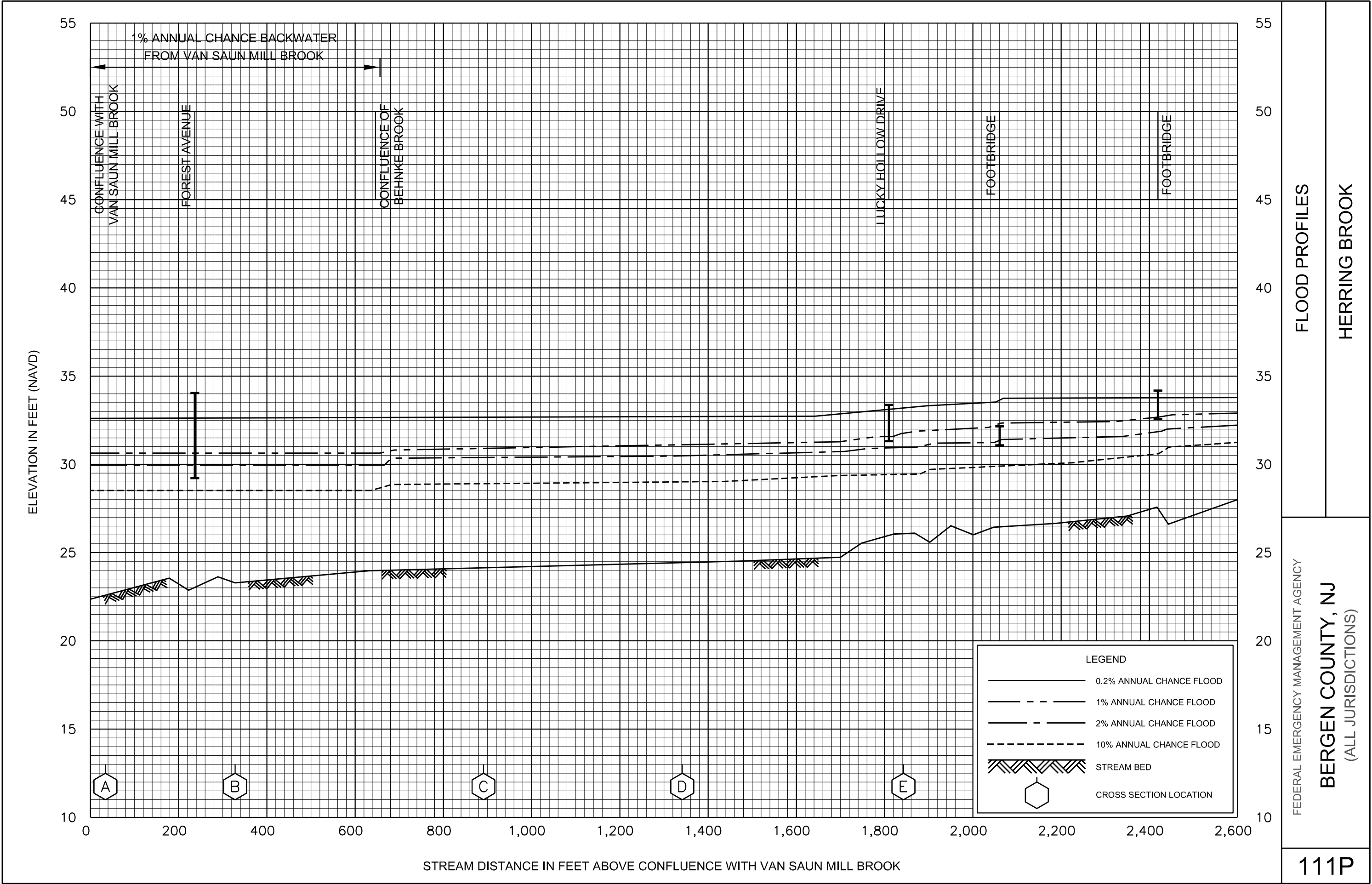
HAUNSMANS DITCH

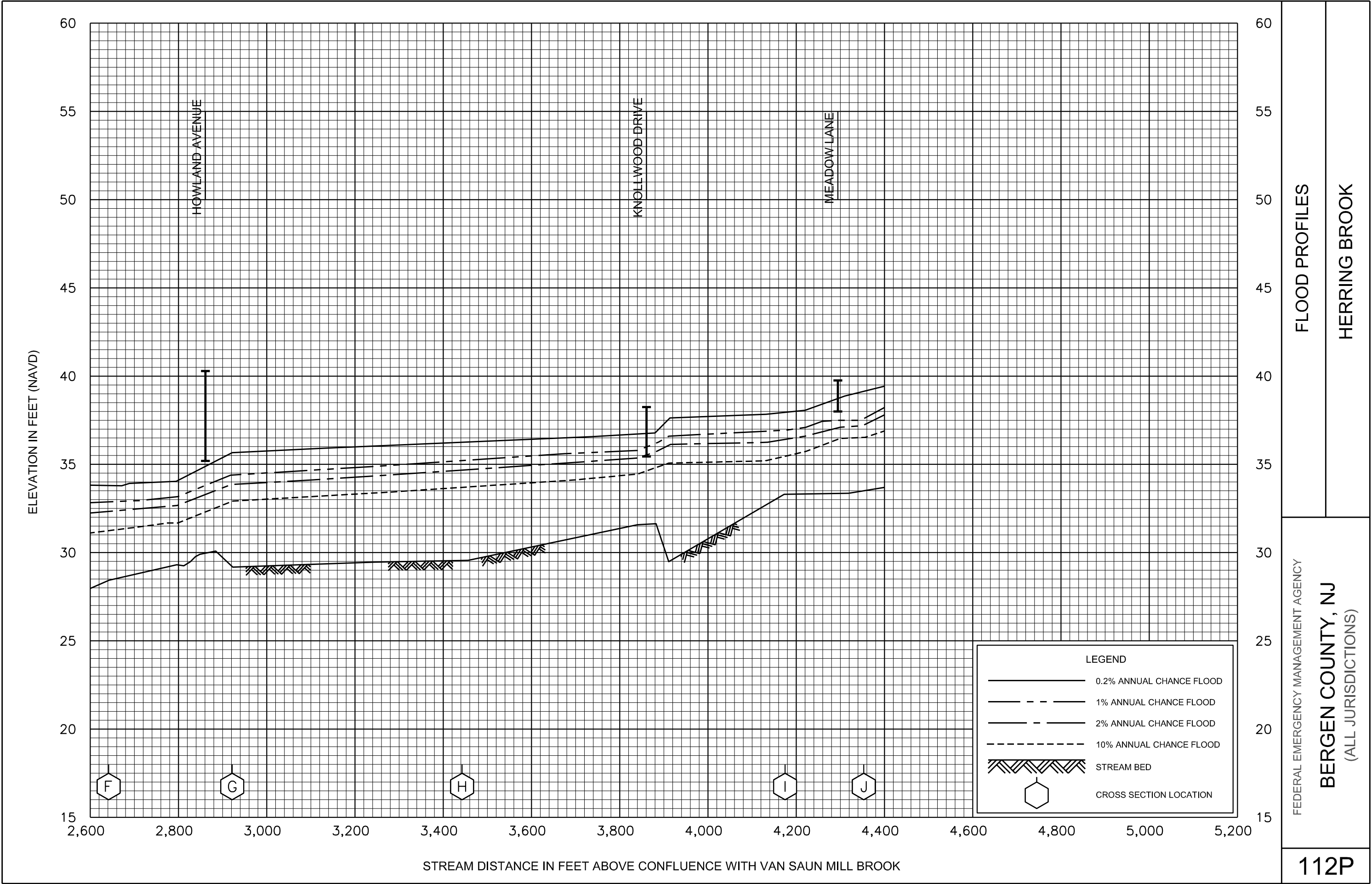
FEDERAL EMERGENCY MANAGEMENT AGENCY

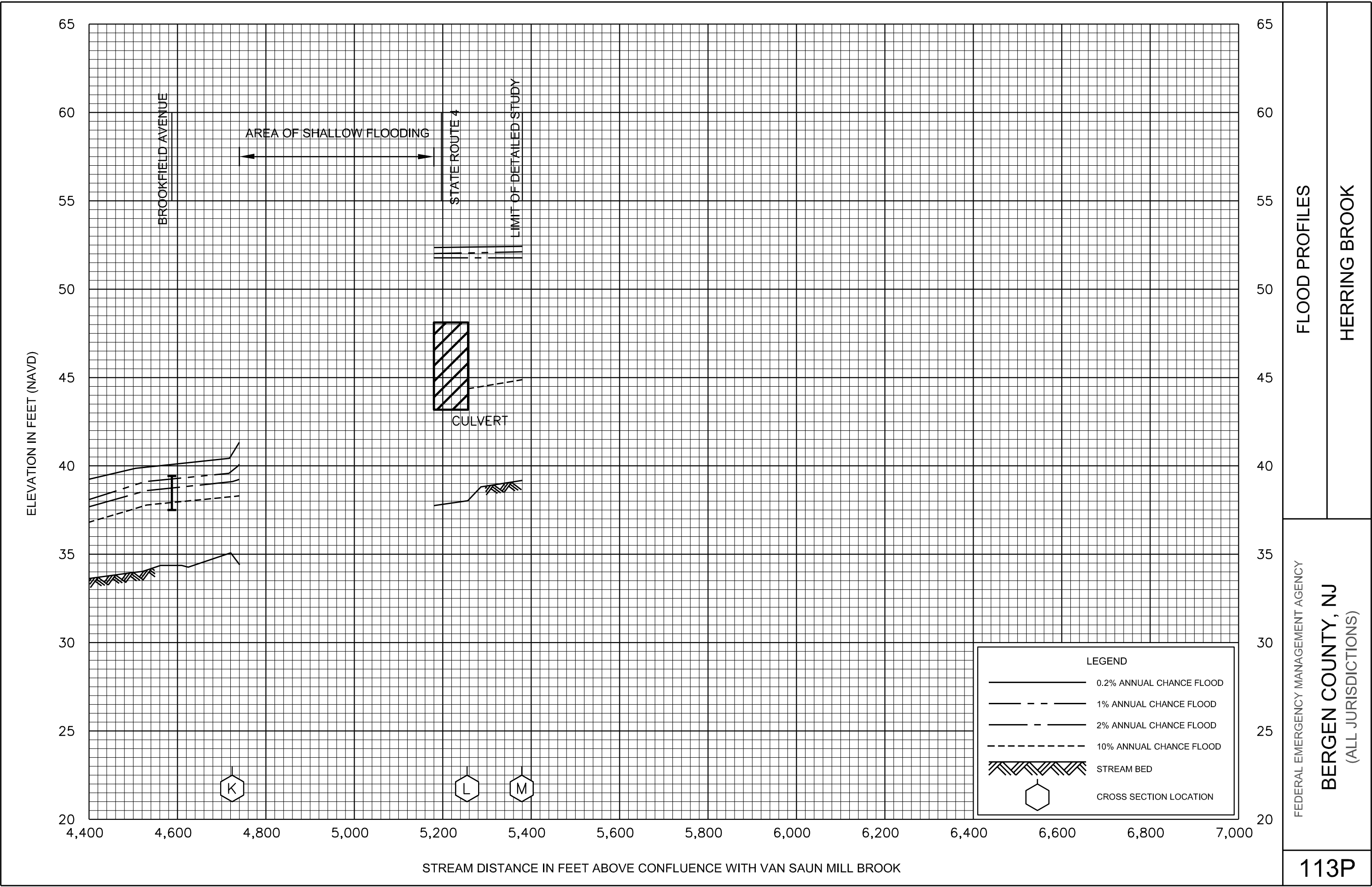
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

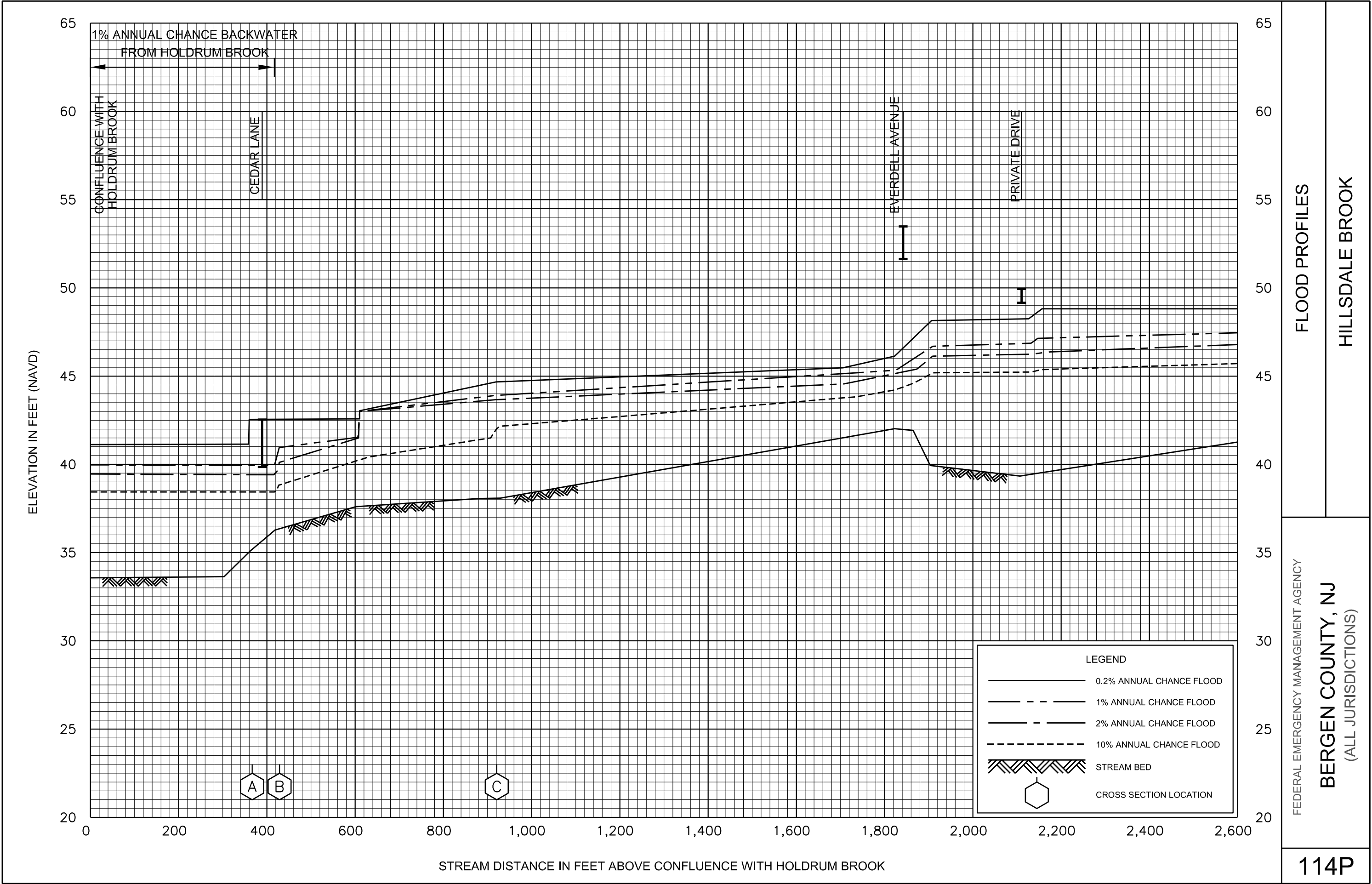


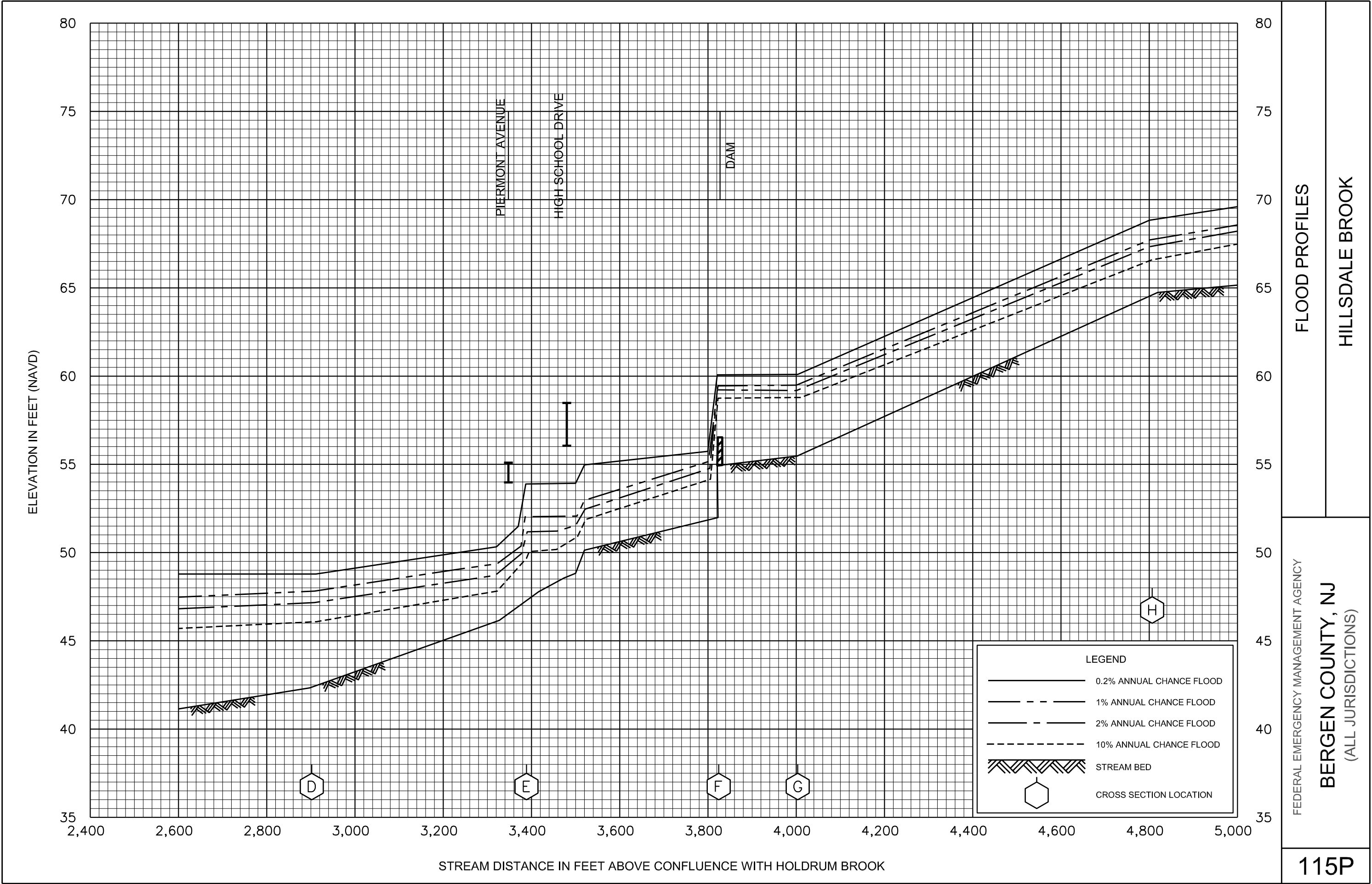


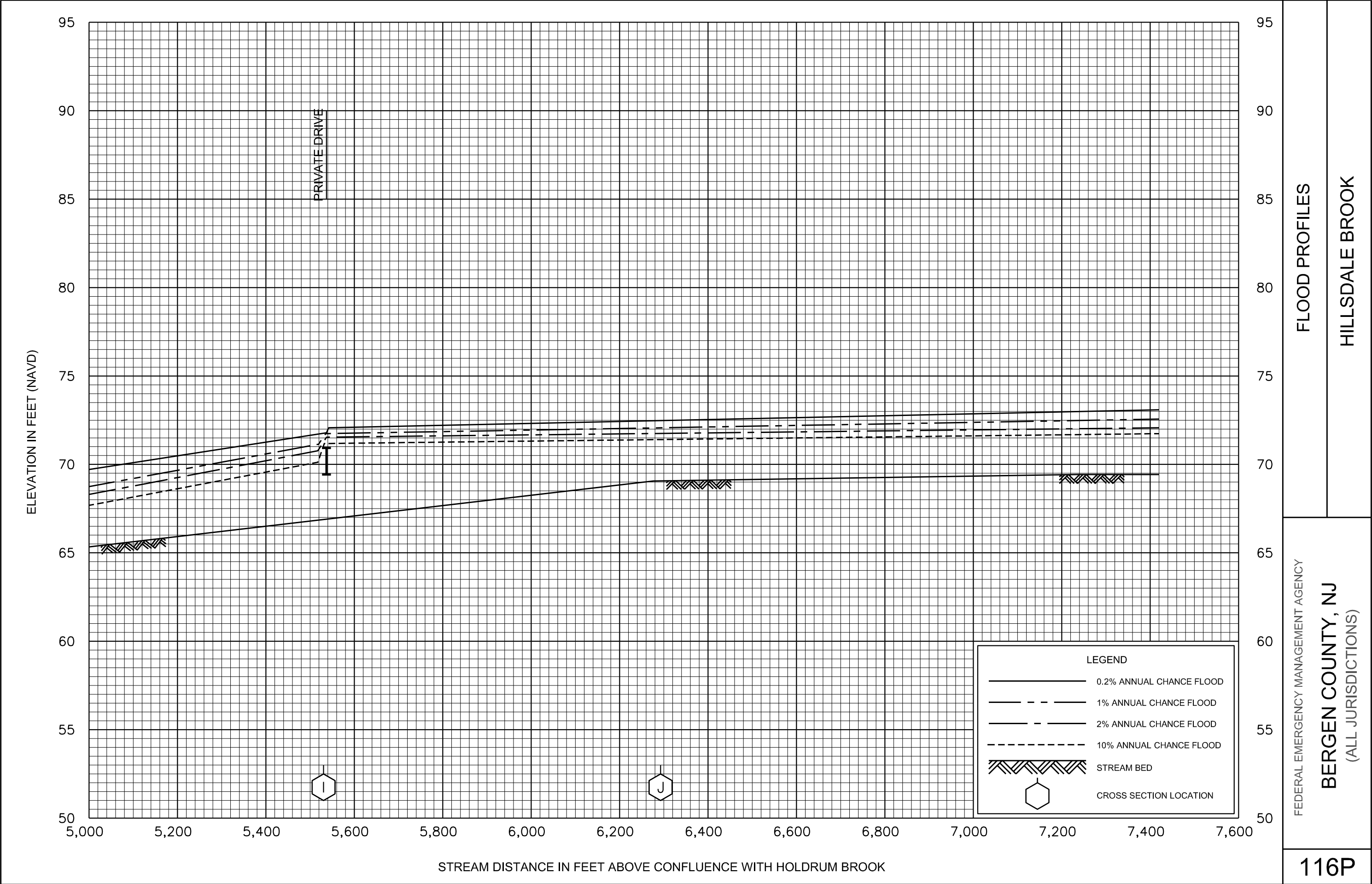


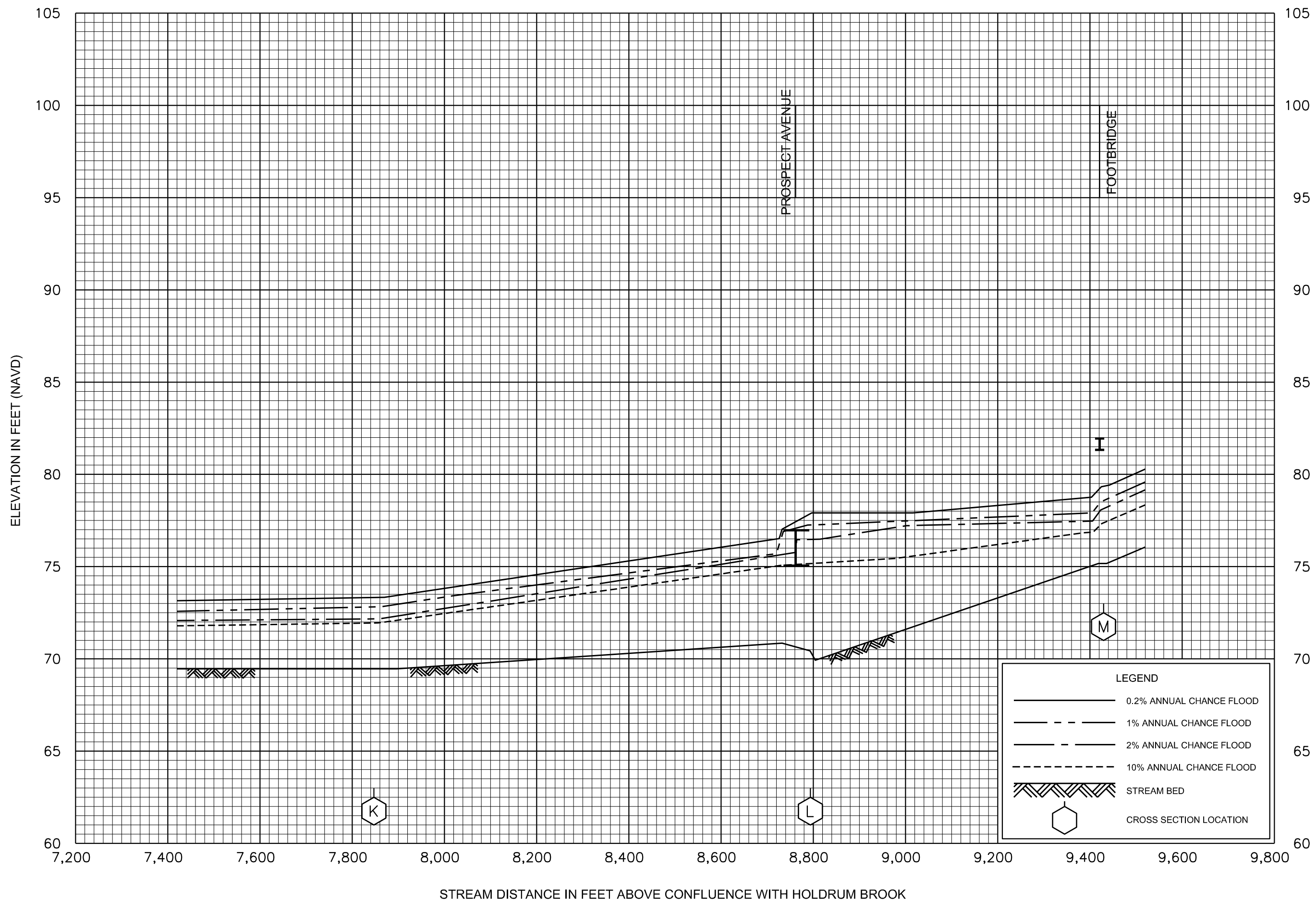












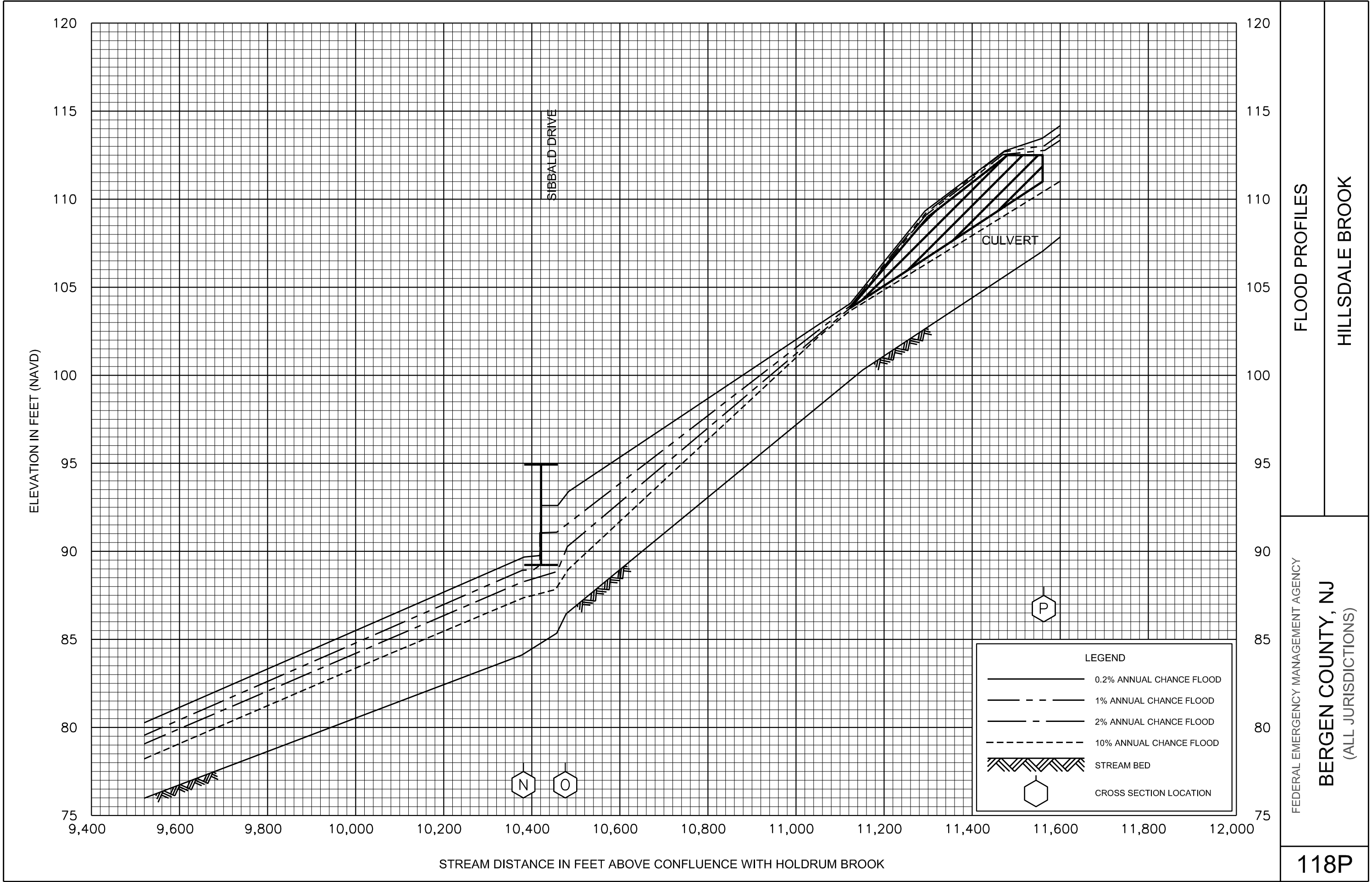
FLOOD PROFILES

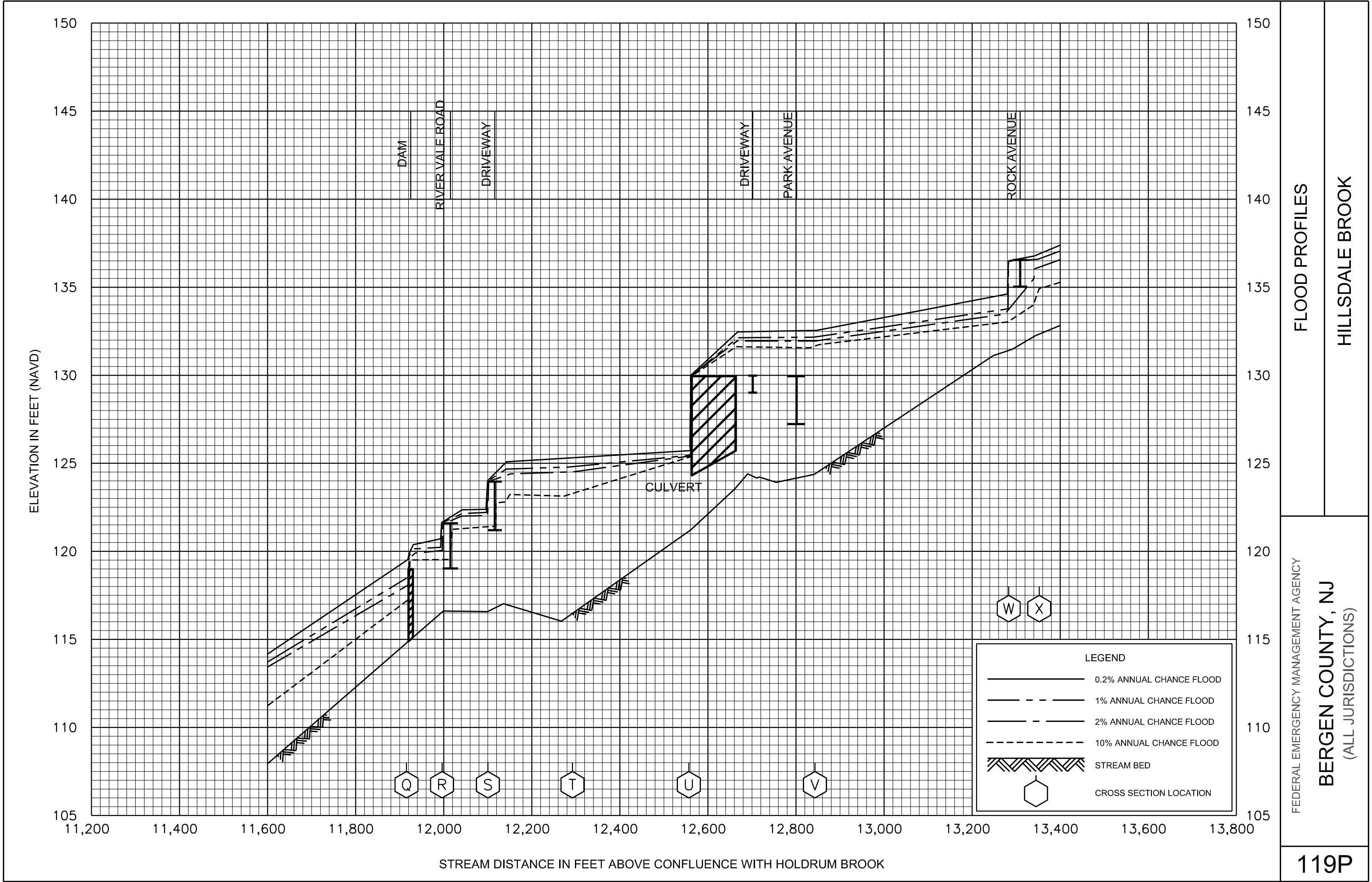
HILLSDALE BROOK

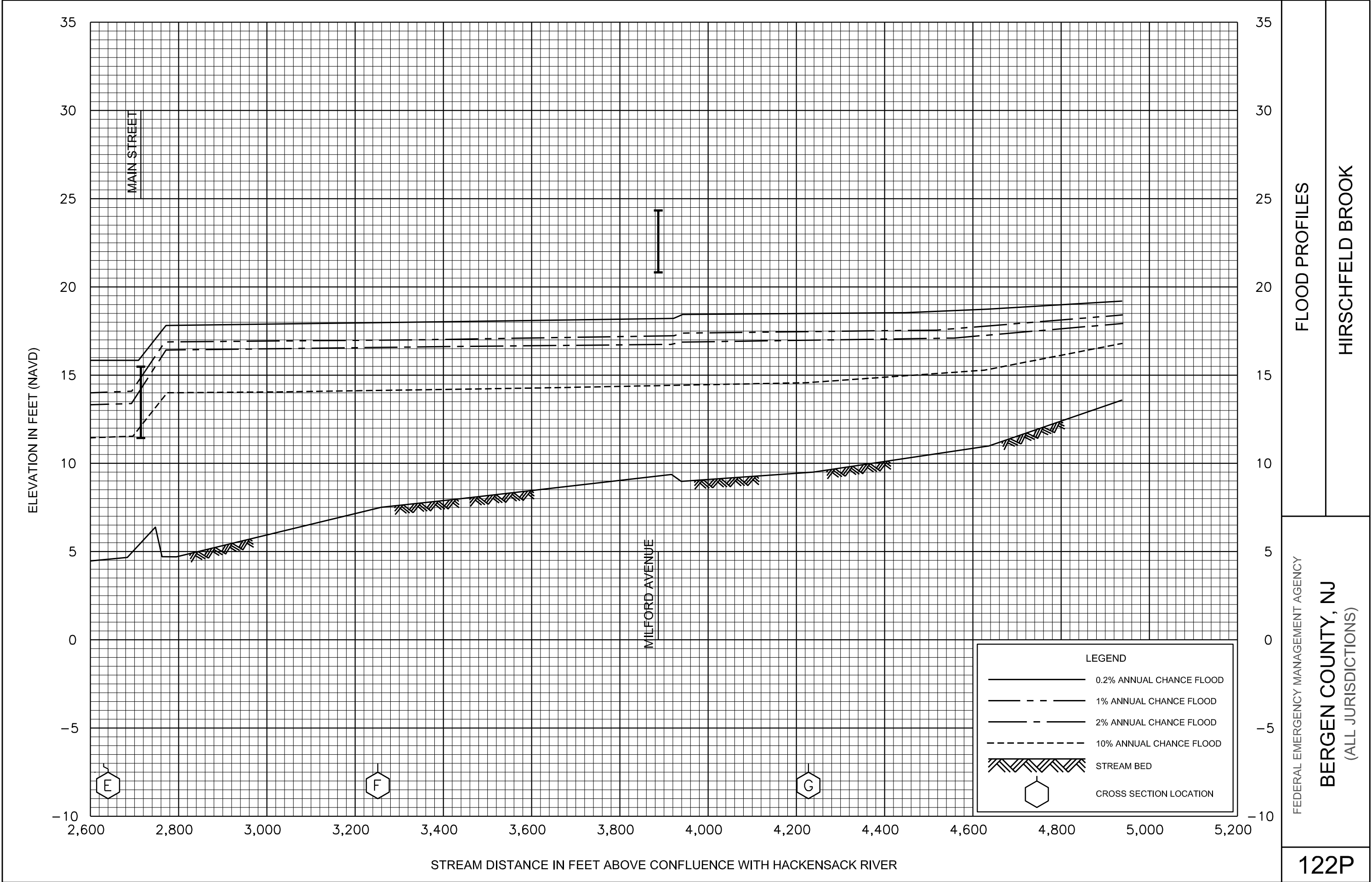
FEDERAL EMERGENCY MANAGEMENT AGENCY

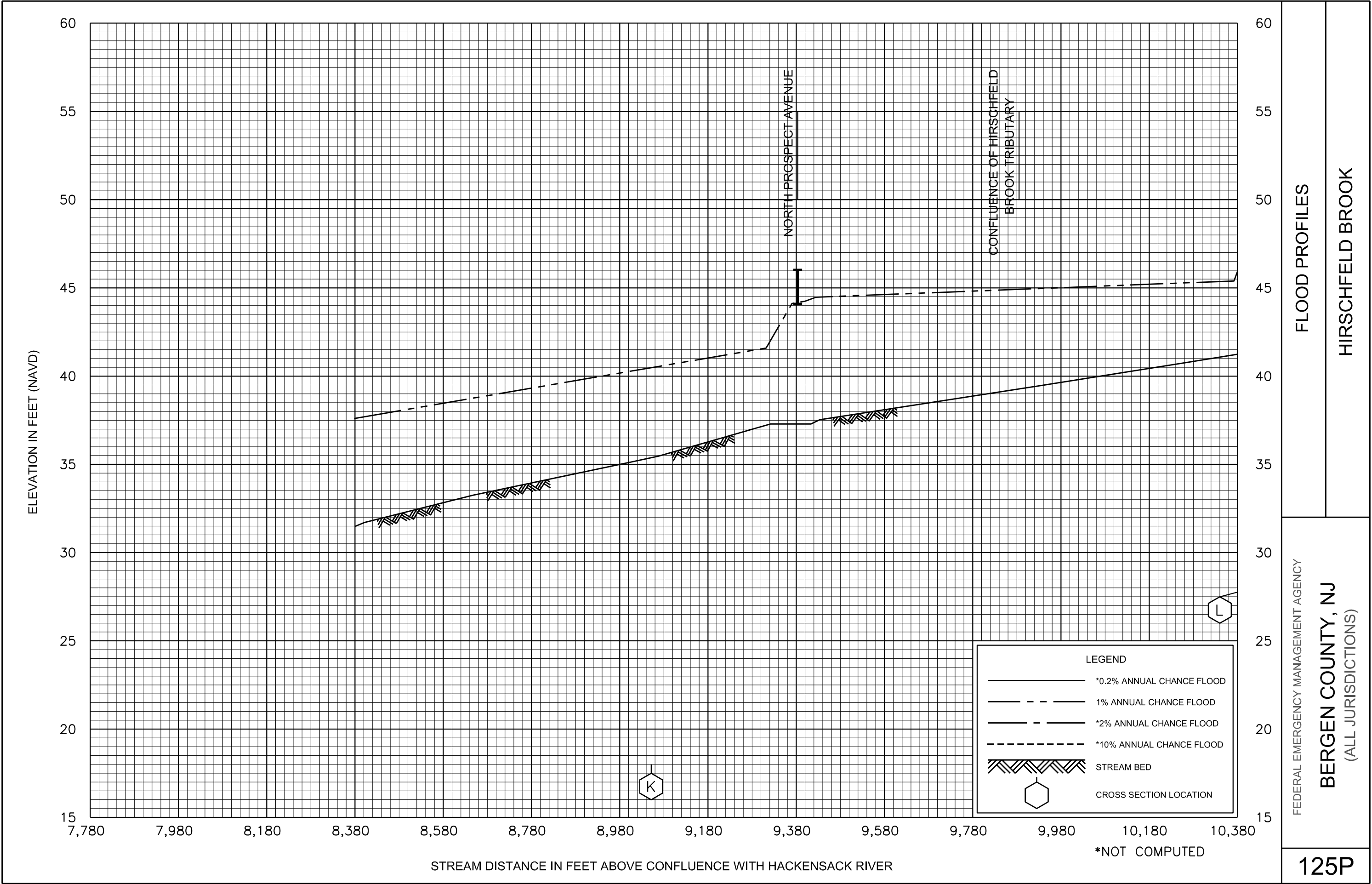
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

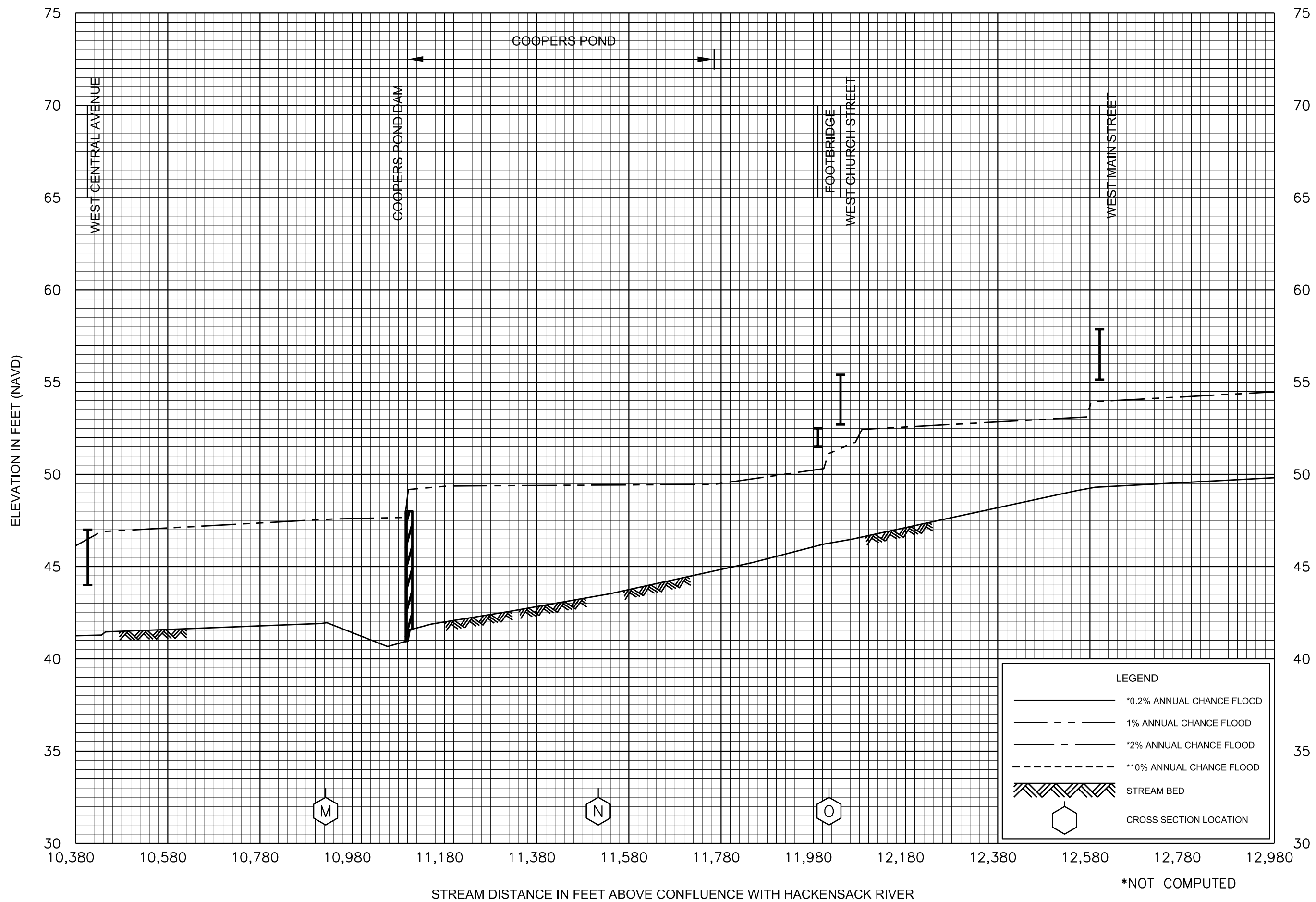
117P

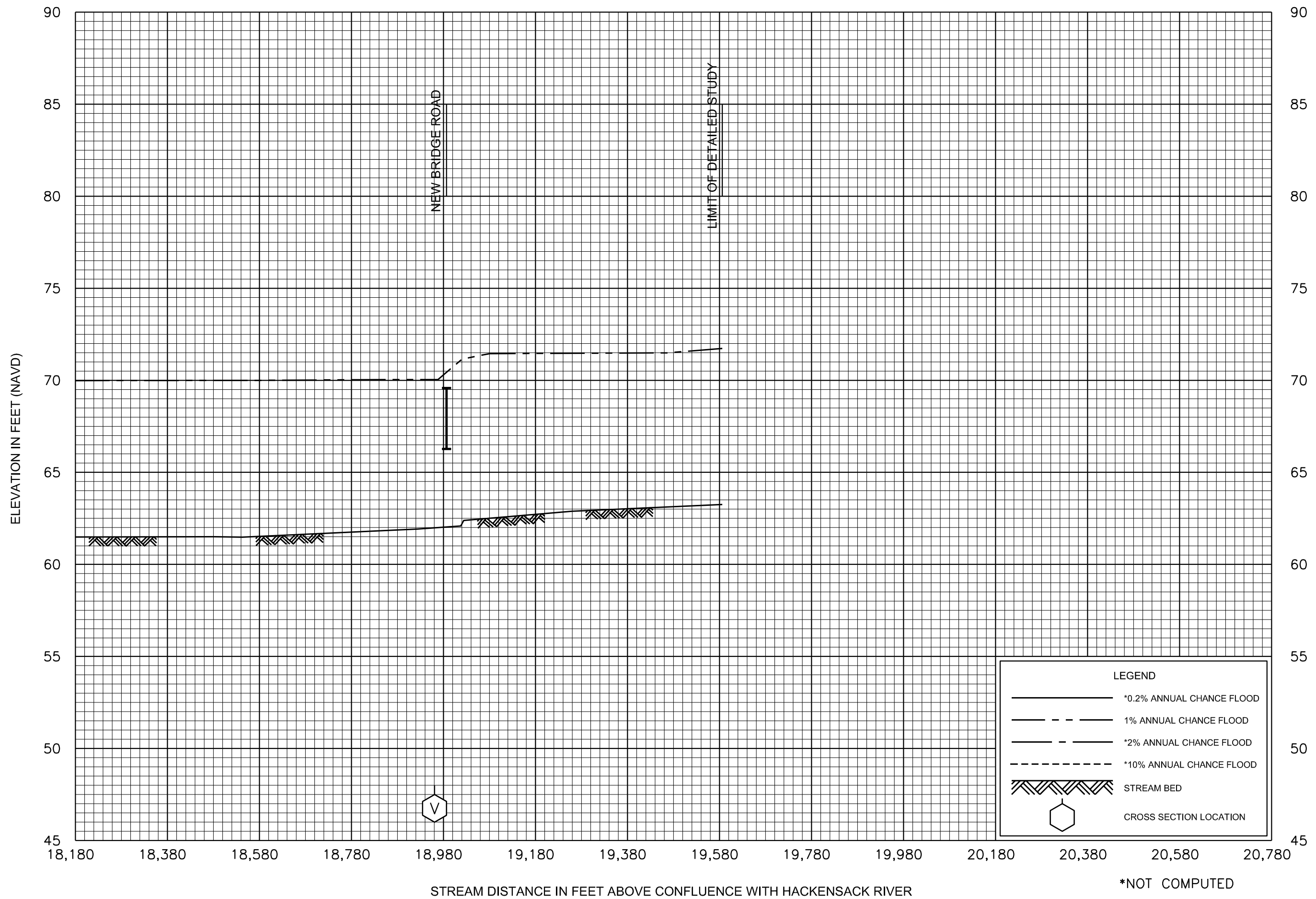












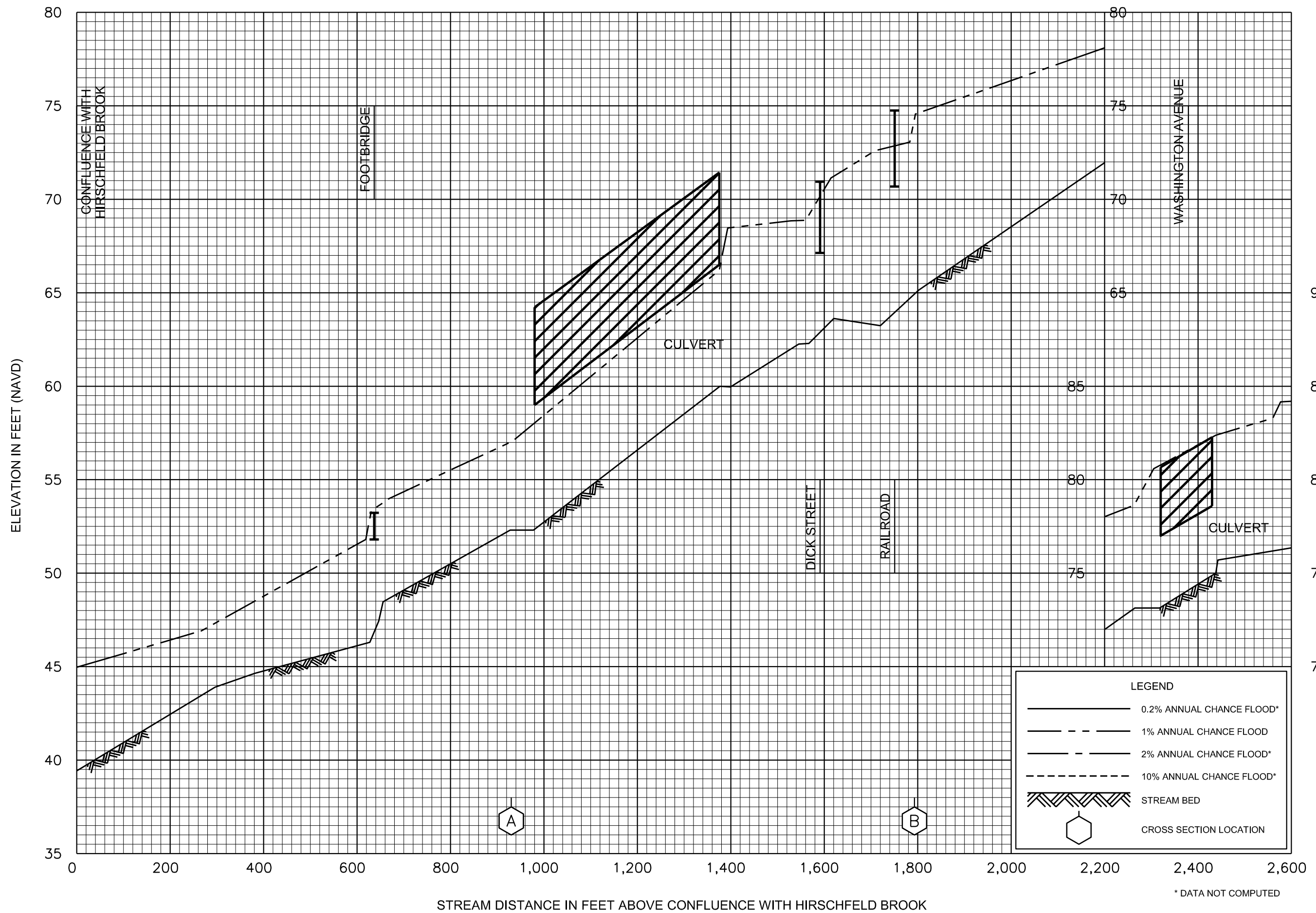
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

FLOOD PROFILES

HIRSCHFELD BROOK

129P



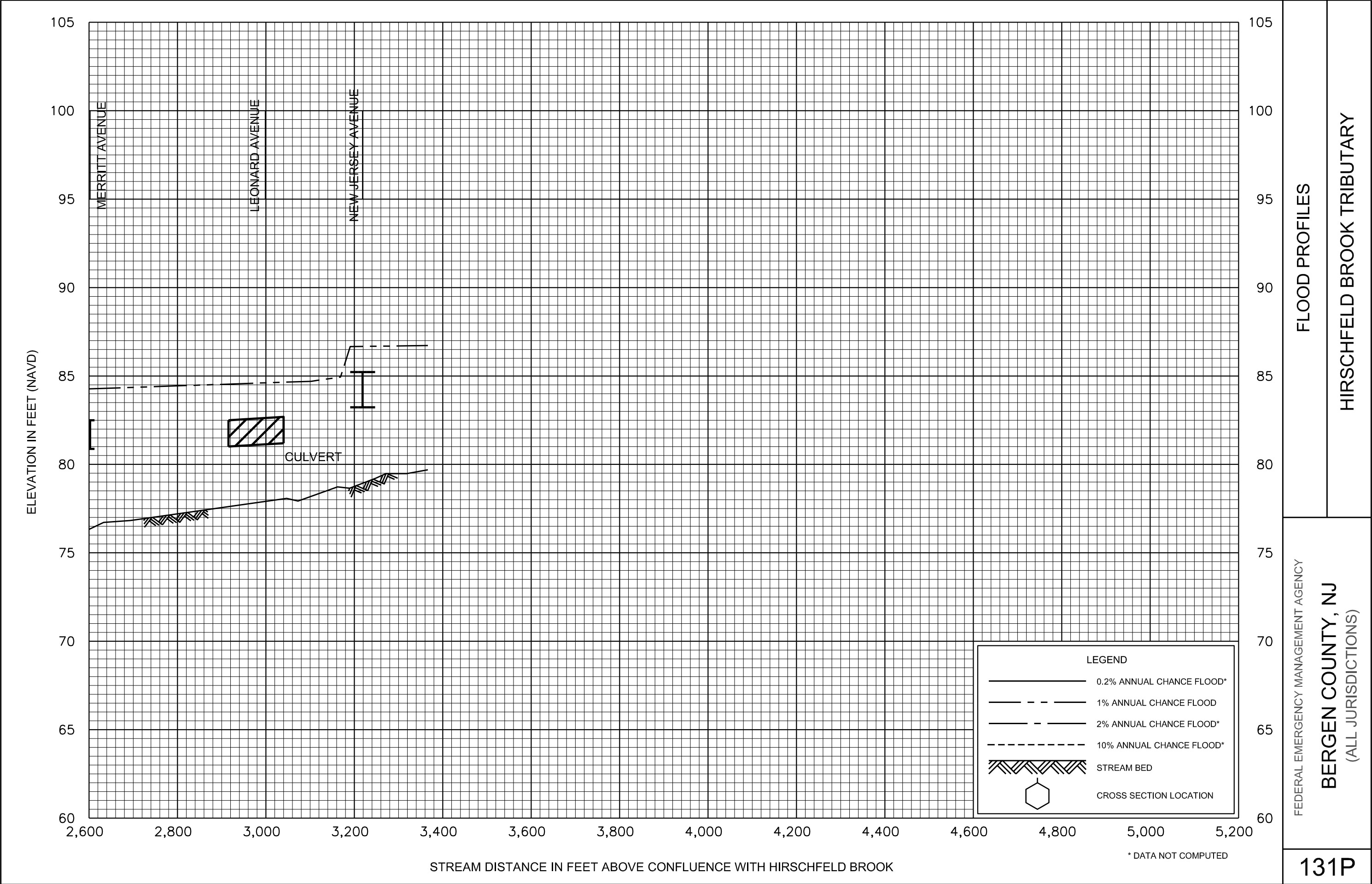
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

FLOOD PROFILES

HIRSCHFELD BROOK TRIBUTARY

130P

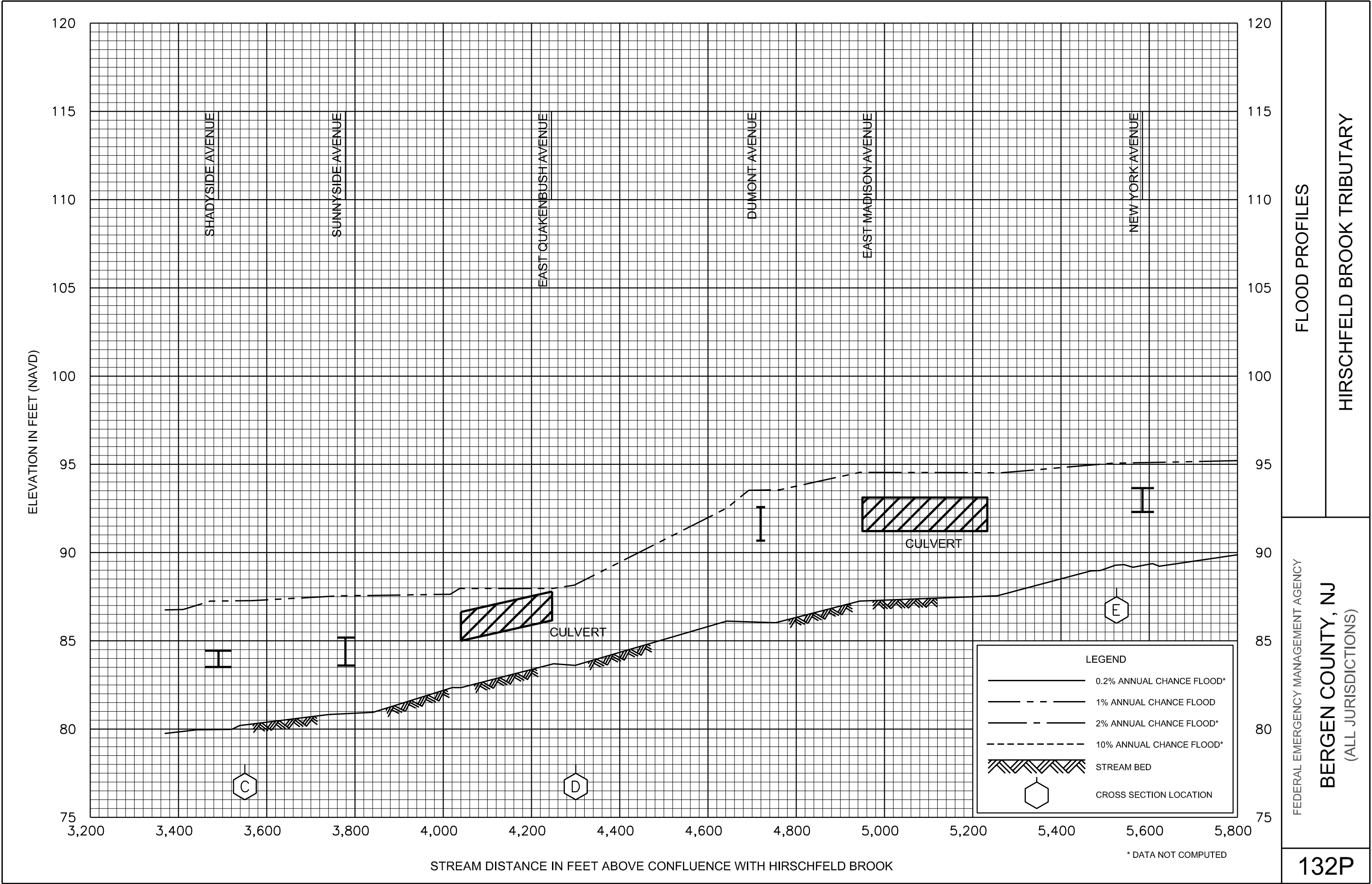


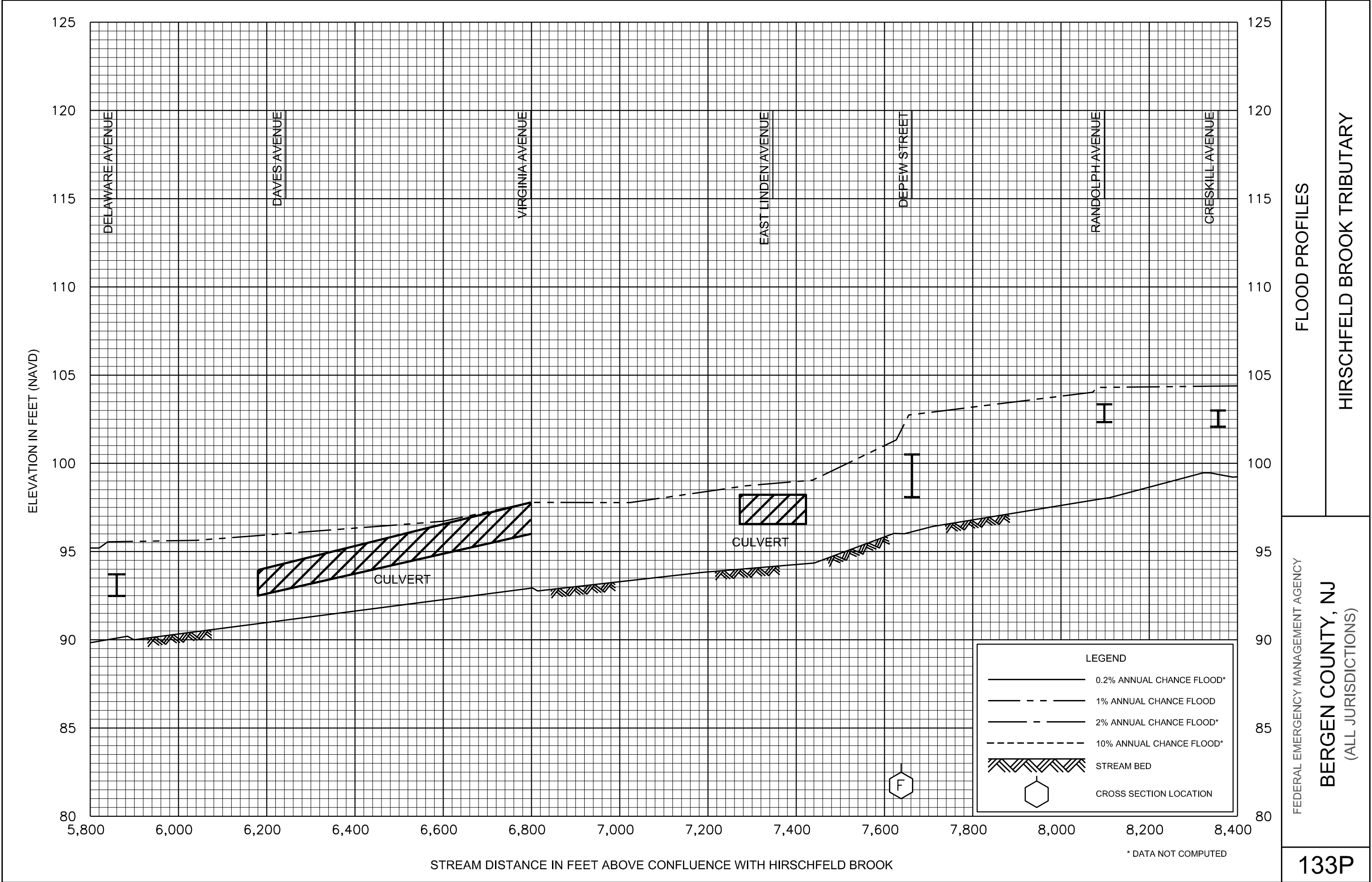
FLOOD PROFILES

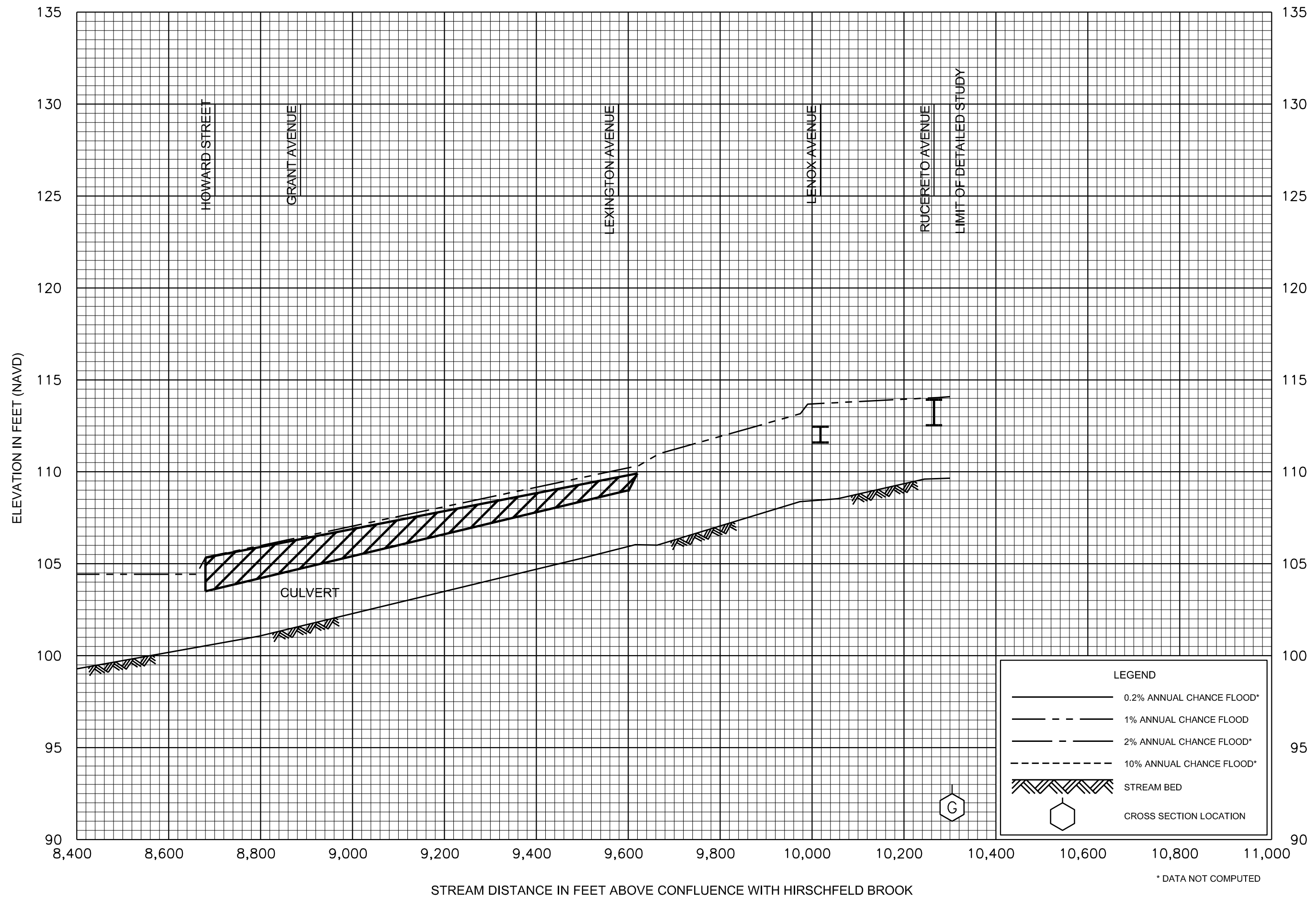
HIRSCHFELD BROOK TRIBUTARY

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)







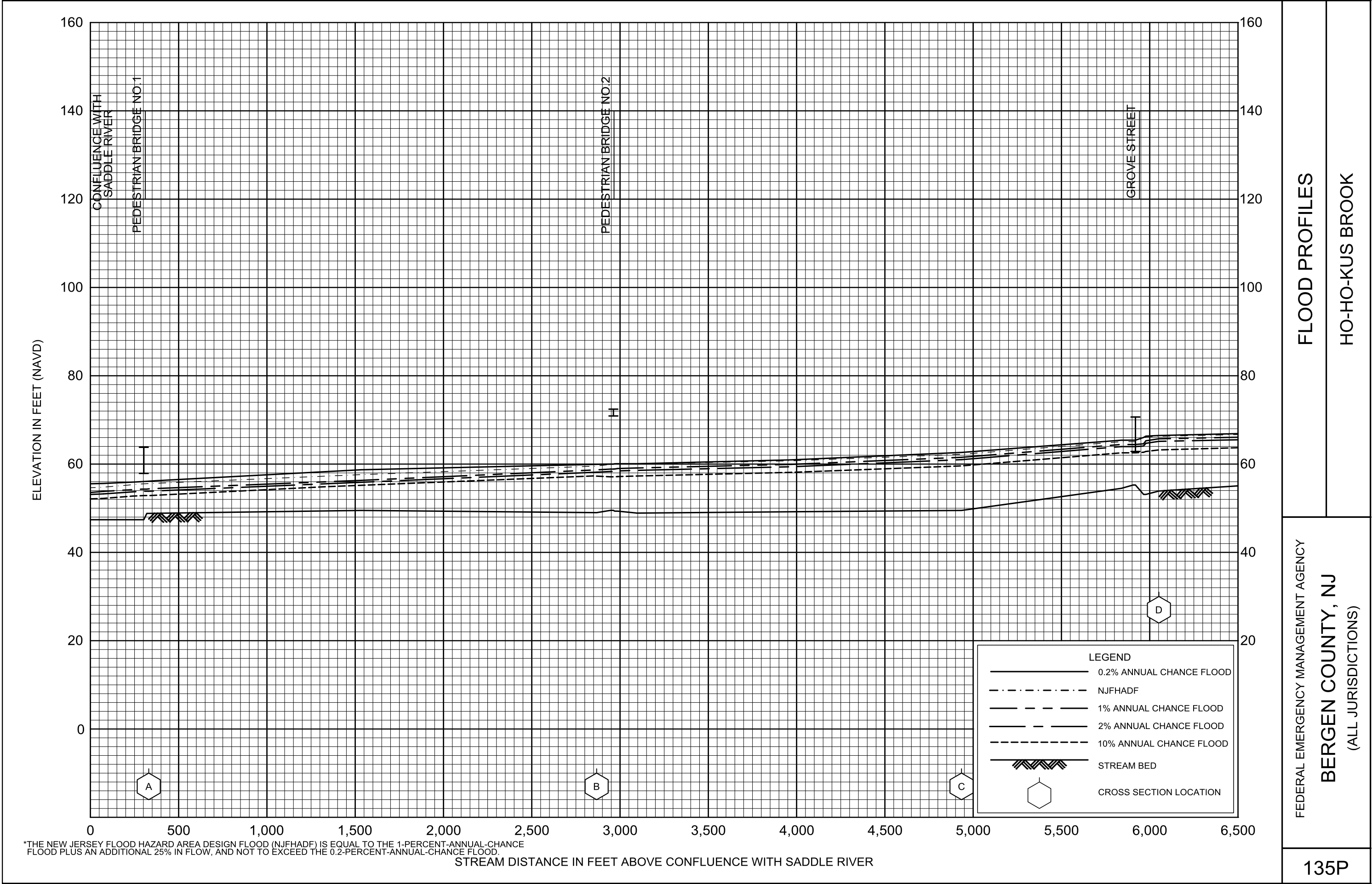
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

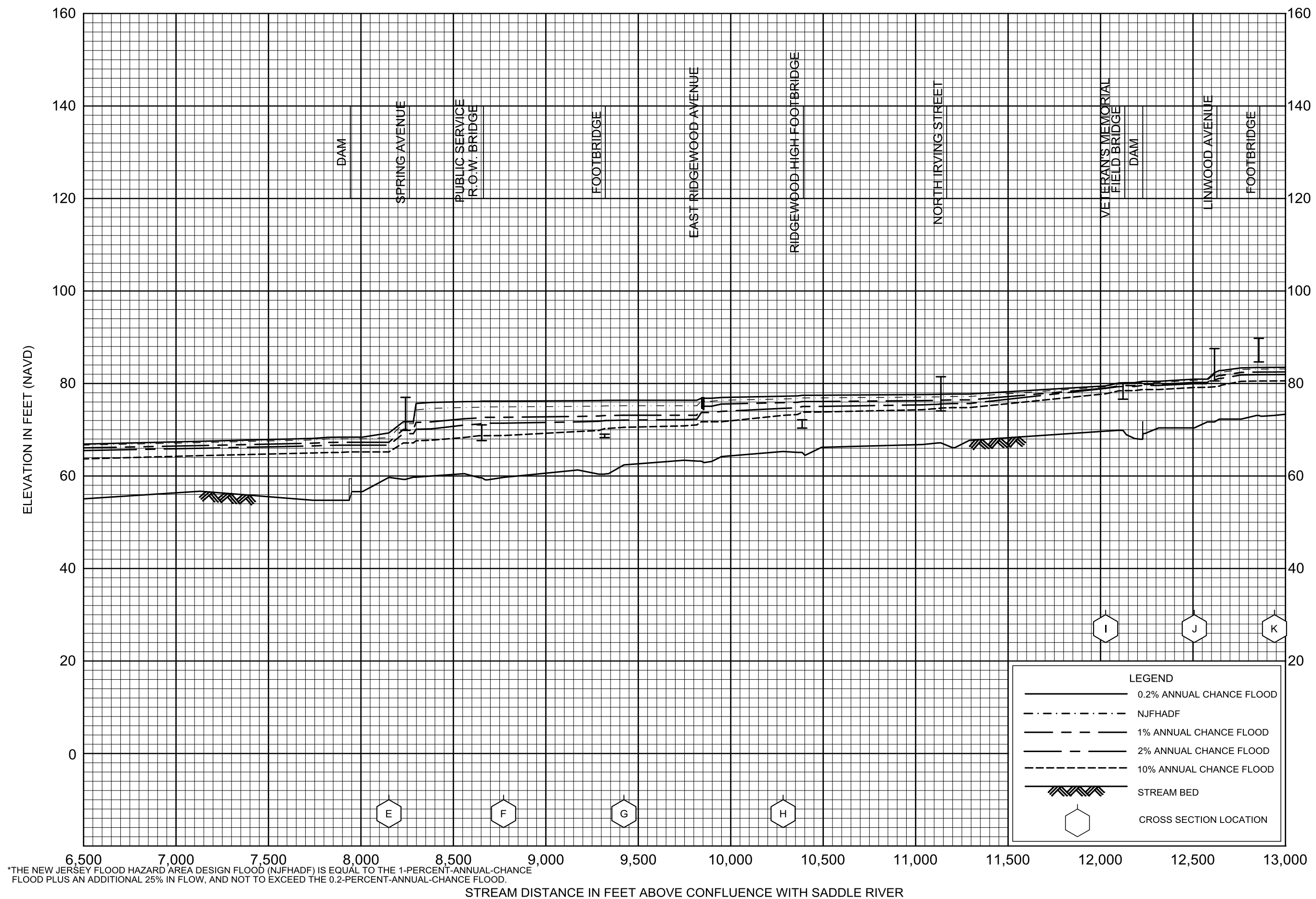
FLOOD PROFILES

HIRSCHFELD BROOK TRIBUTARY

134P



*THE NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL-CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL-CHANCE FLOOD.



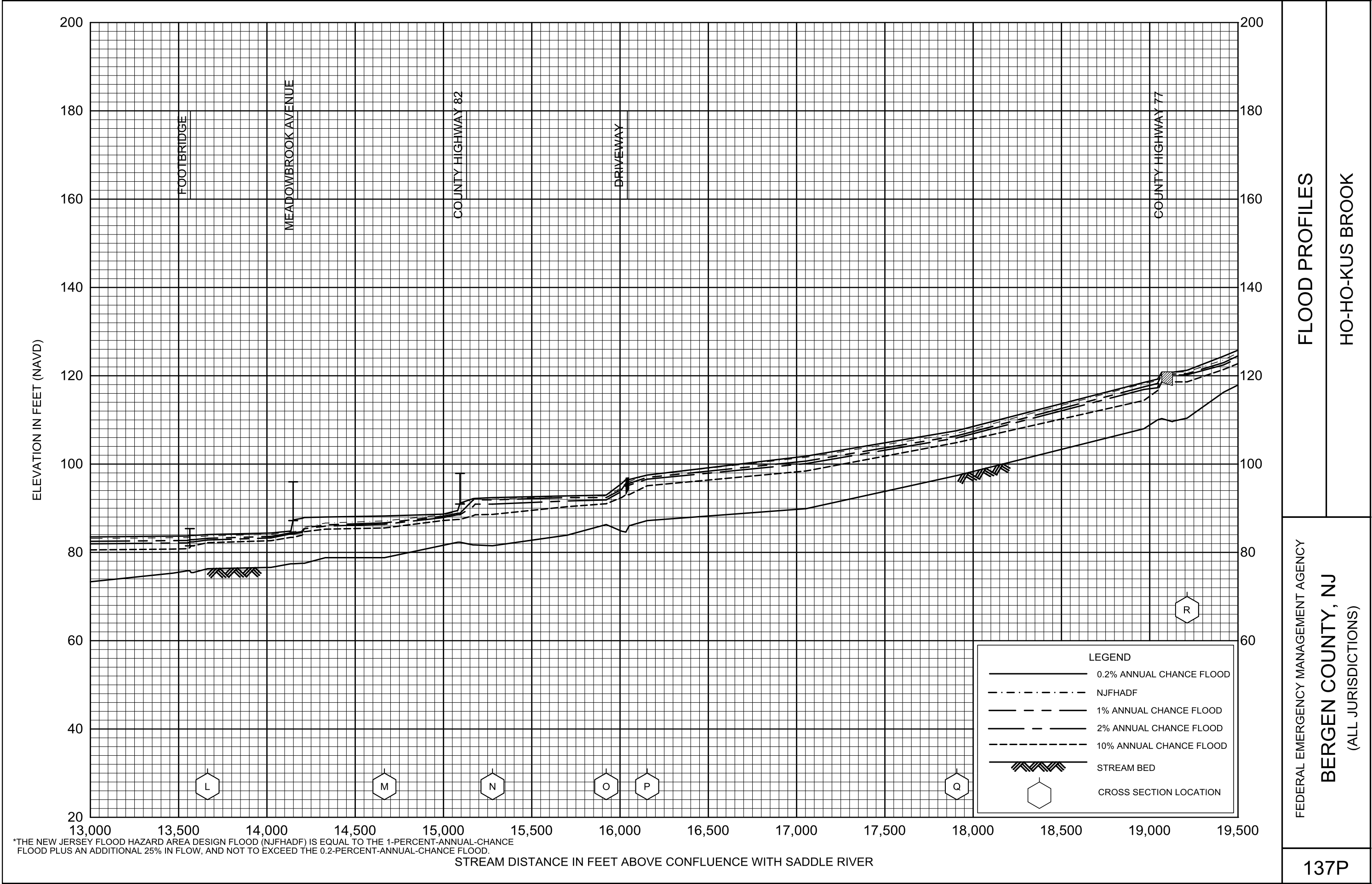
FLOOD PROFILES

HO-HO-KUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

136P

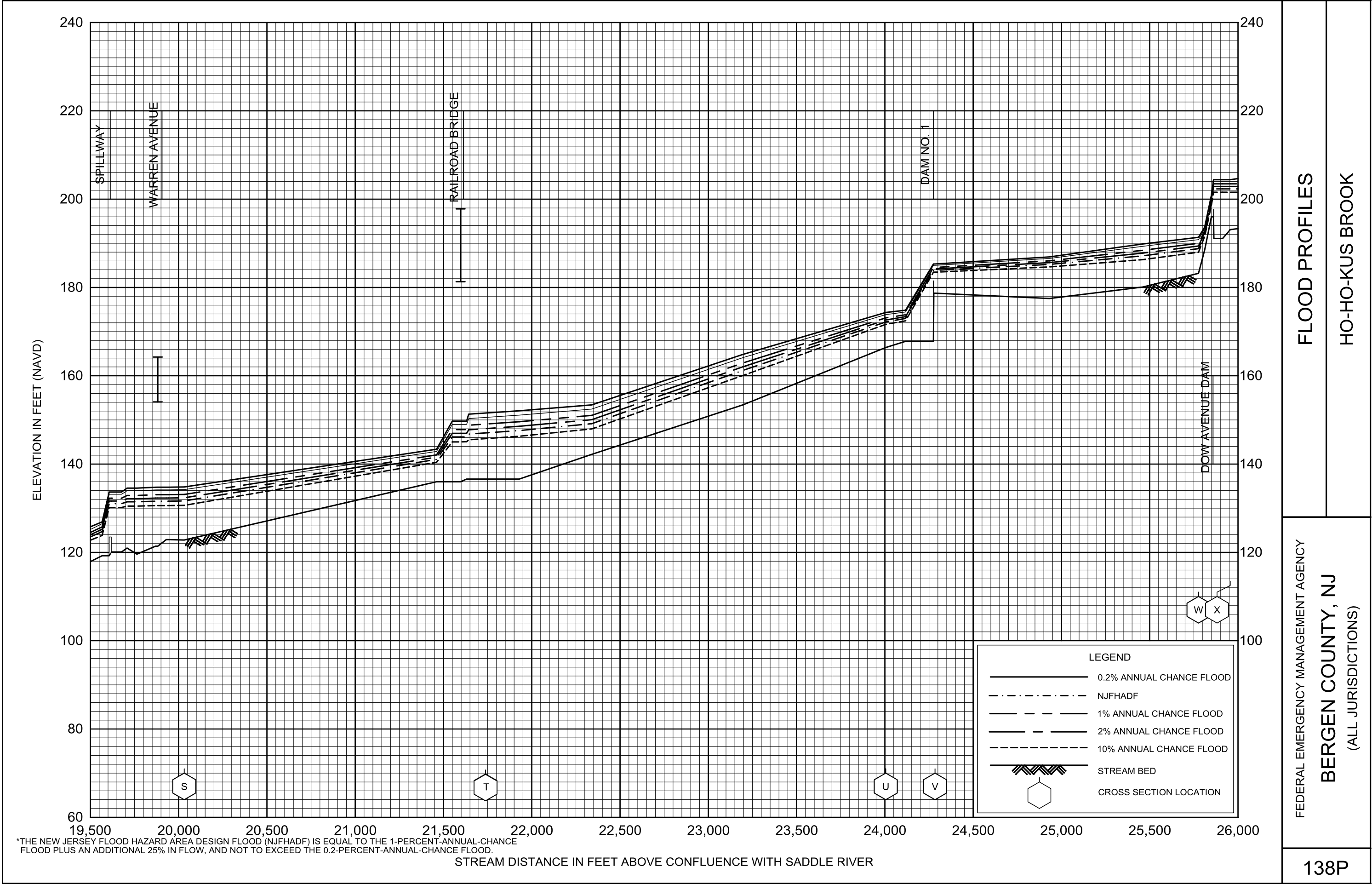


FLOOD PROFILES

HO-HO-KUS BROOK

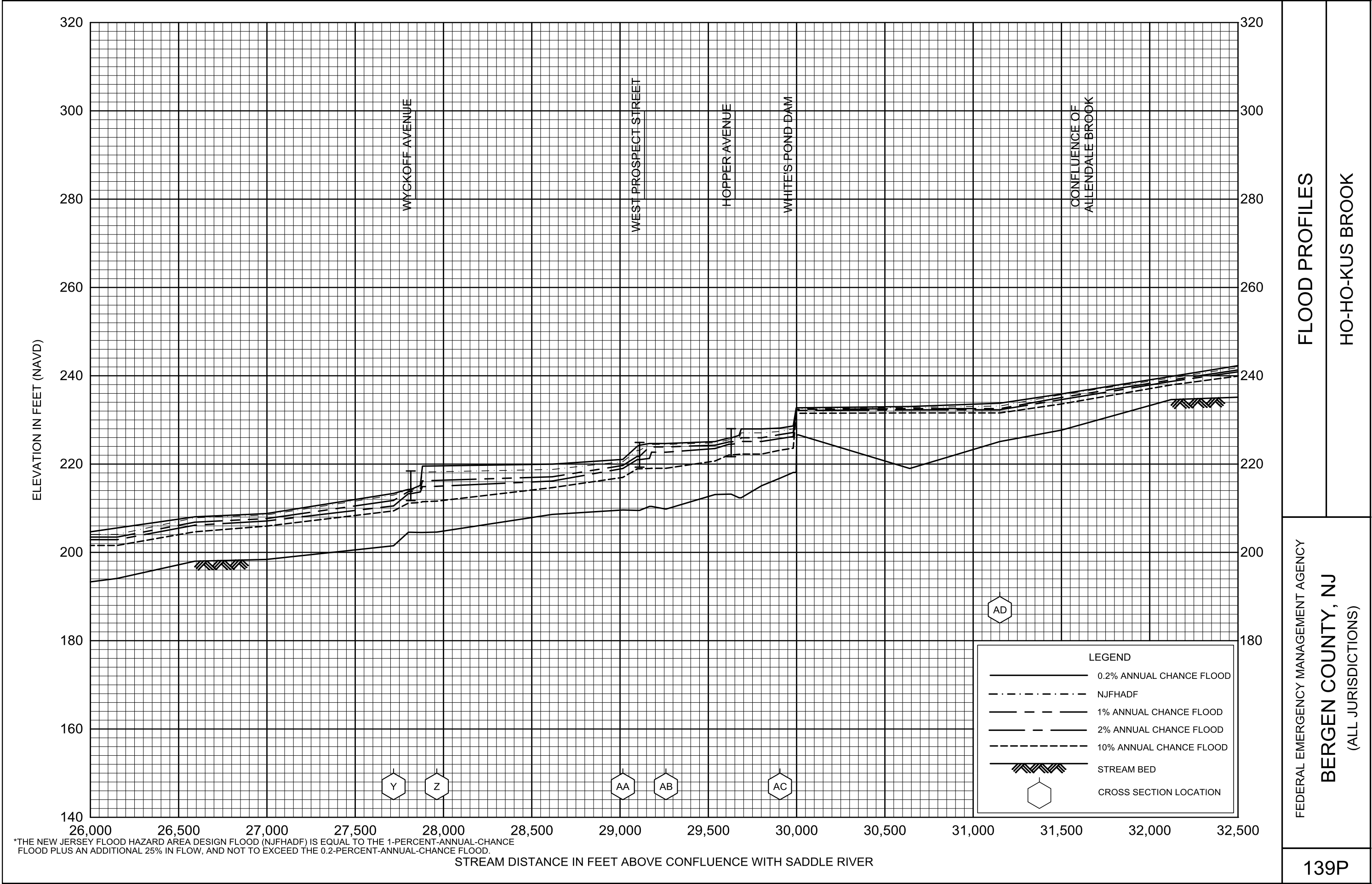
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

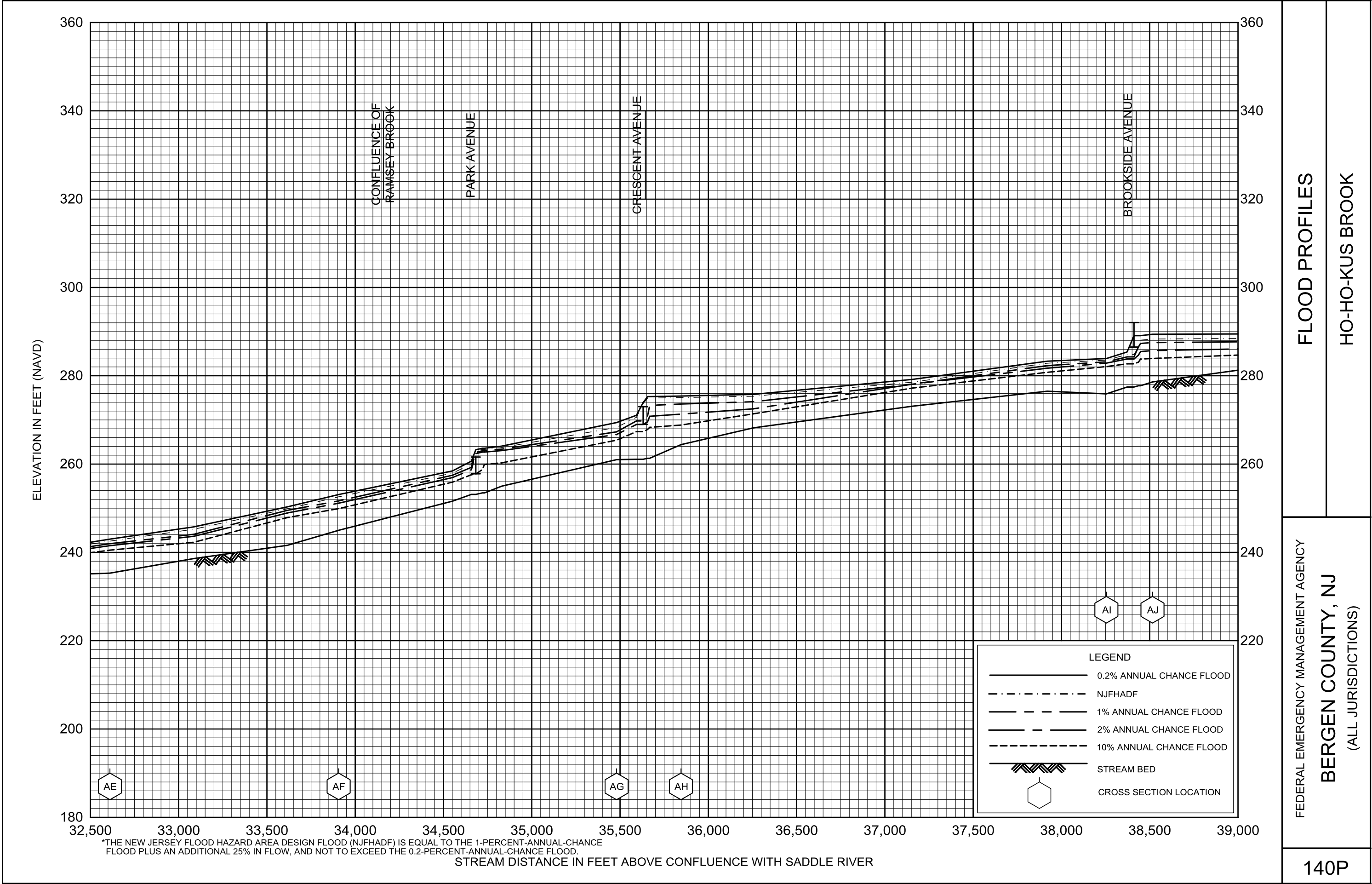


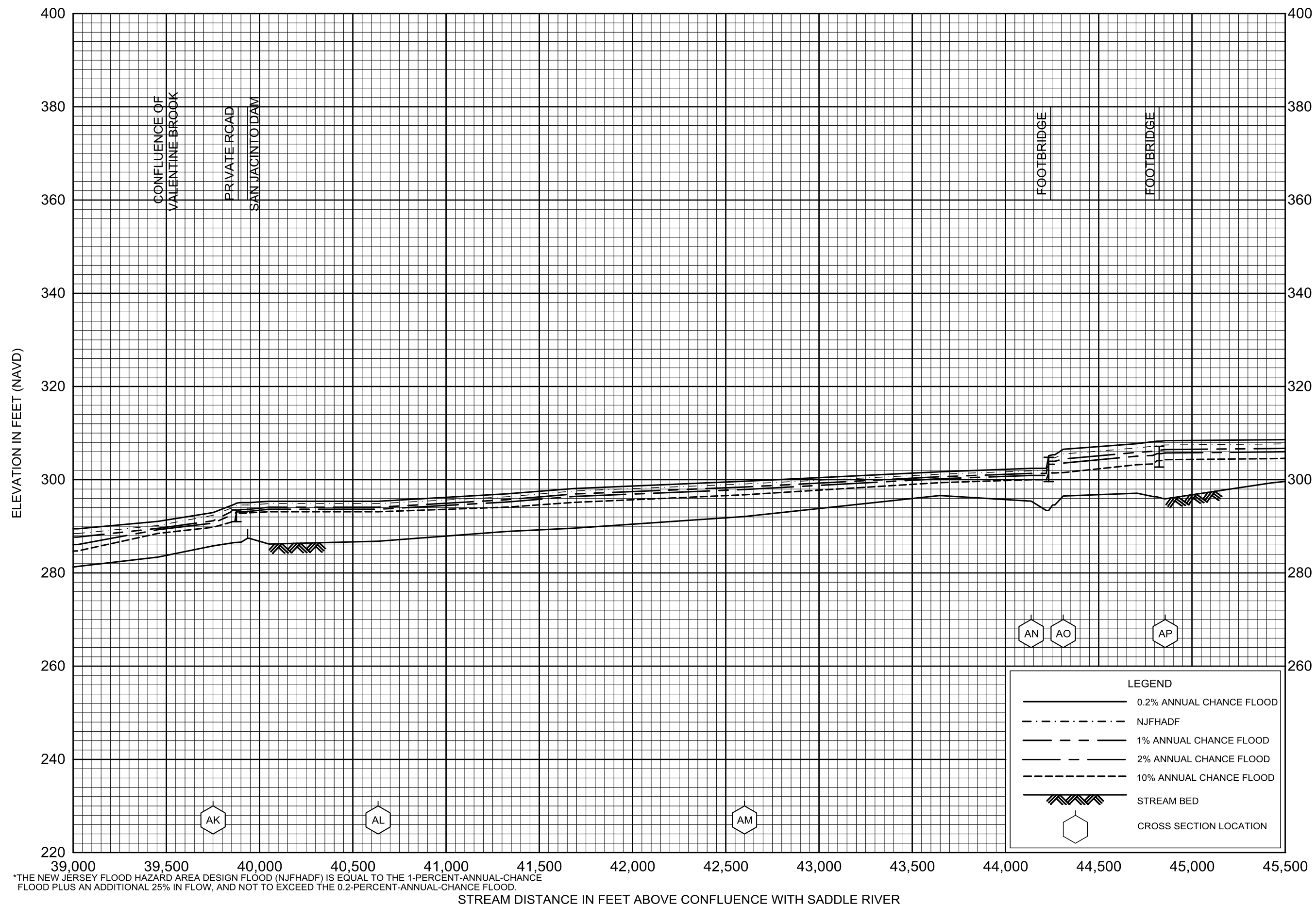
*THE NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL-CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL-CHANCE FLOOD.

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH SADDLE RIVER



*THE NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL-CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL-CHANCE FLOOD.





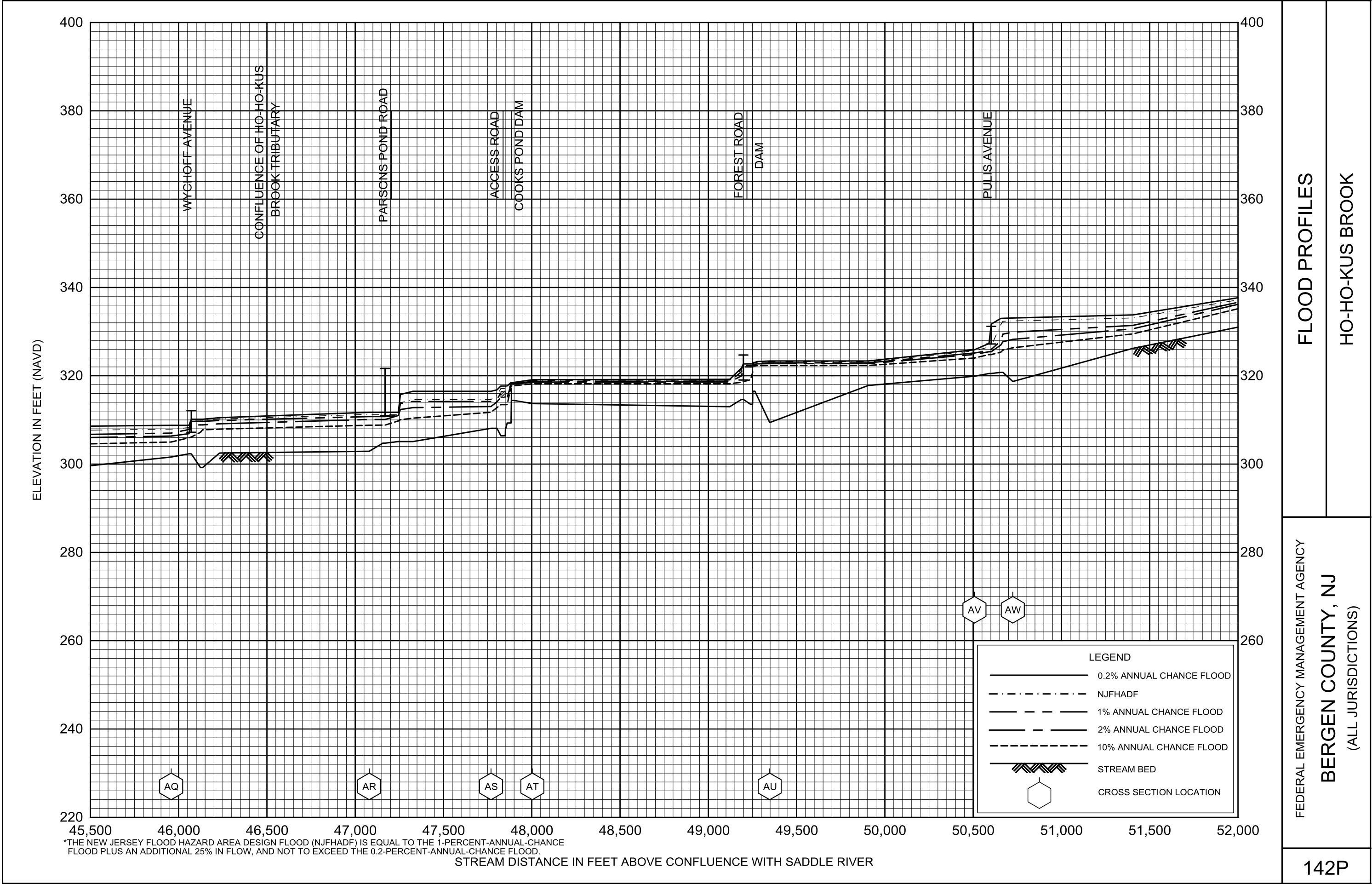
FLOOD PROFILES

HO-HO-KUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

141P

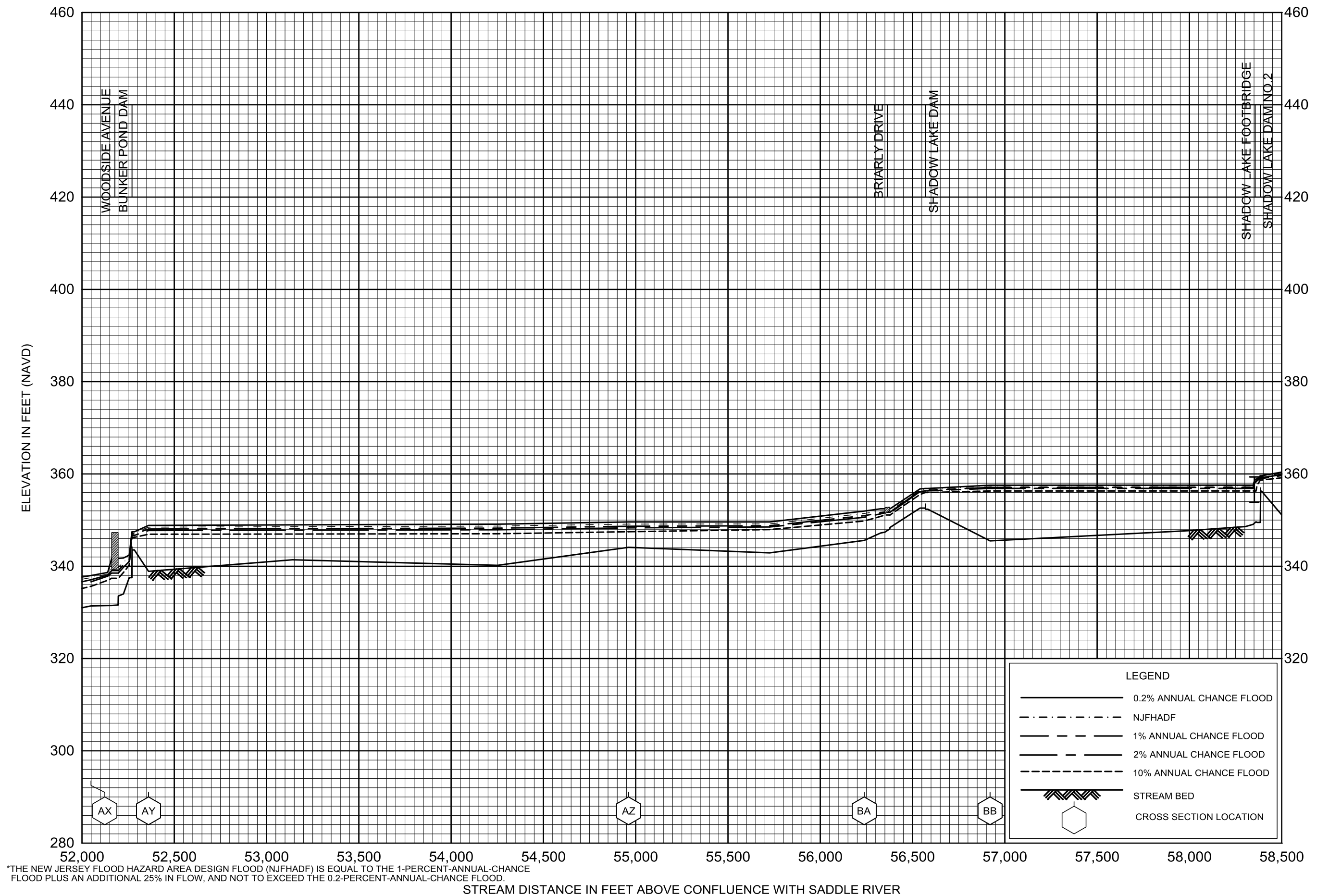


FLOOD PROFILES

HO-HO-KUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)



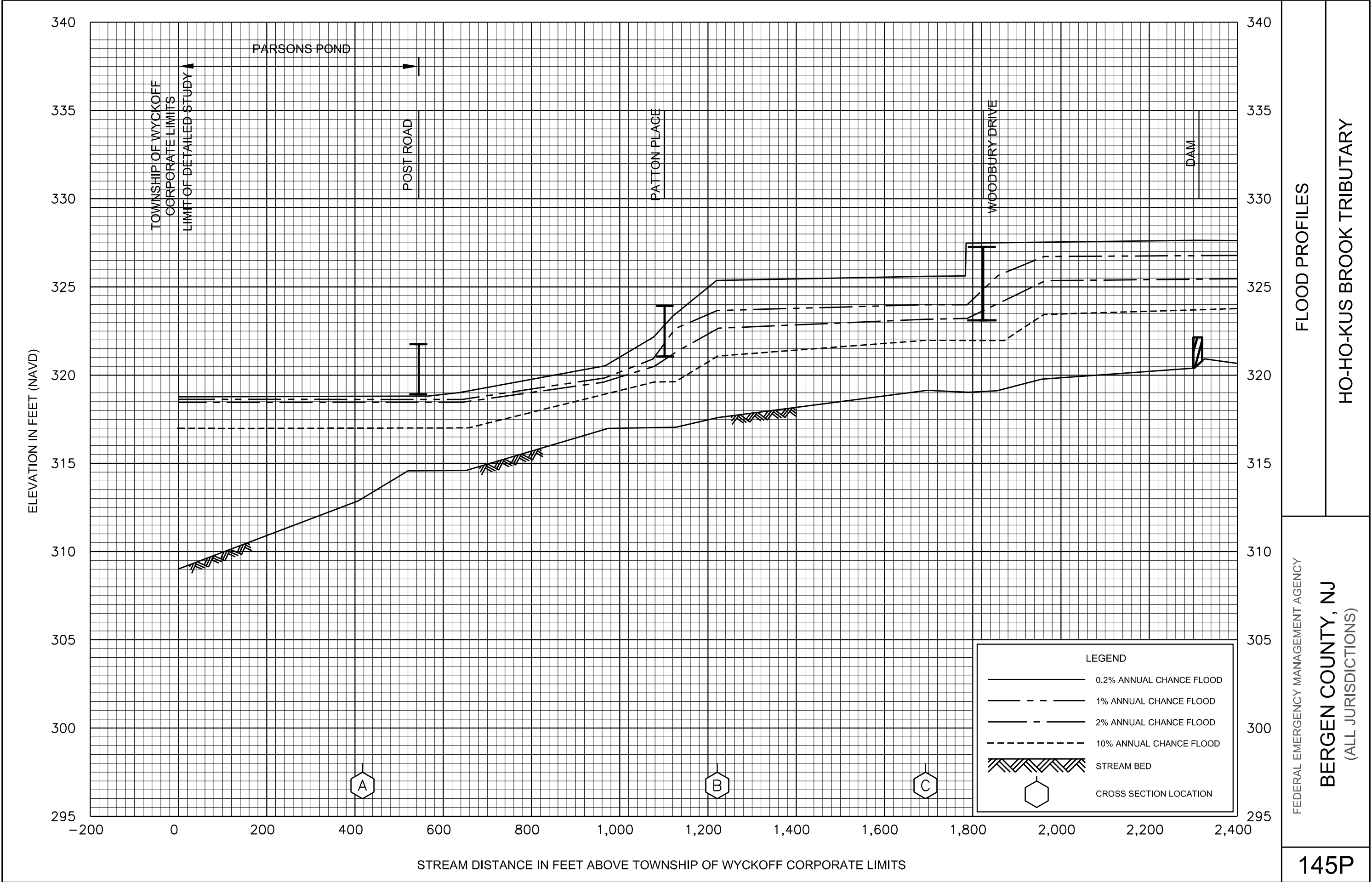
FLOOD PROFILES

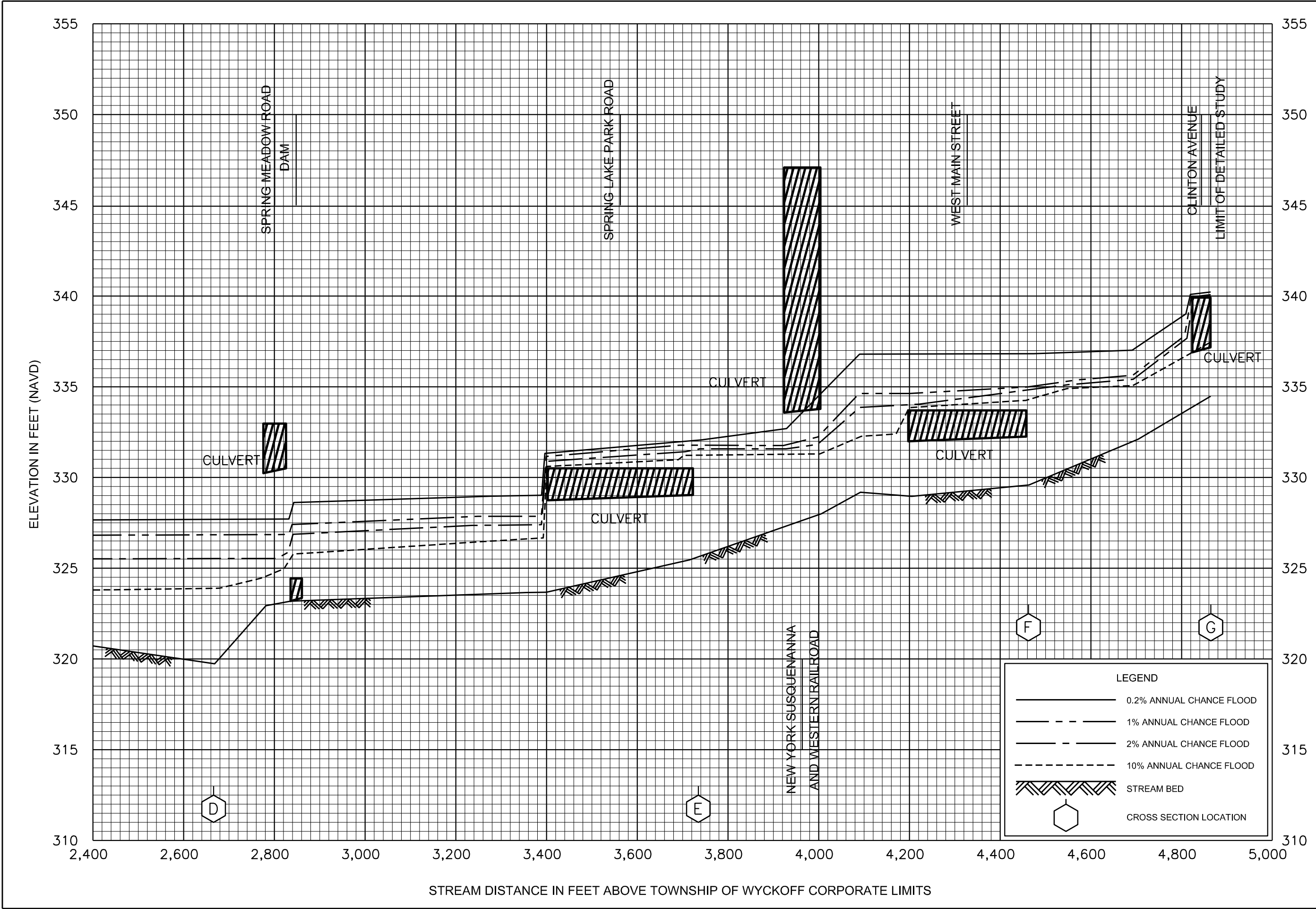
HO-HO-KUS BROOK

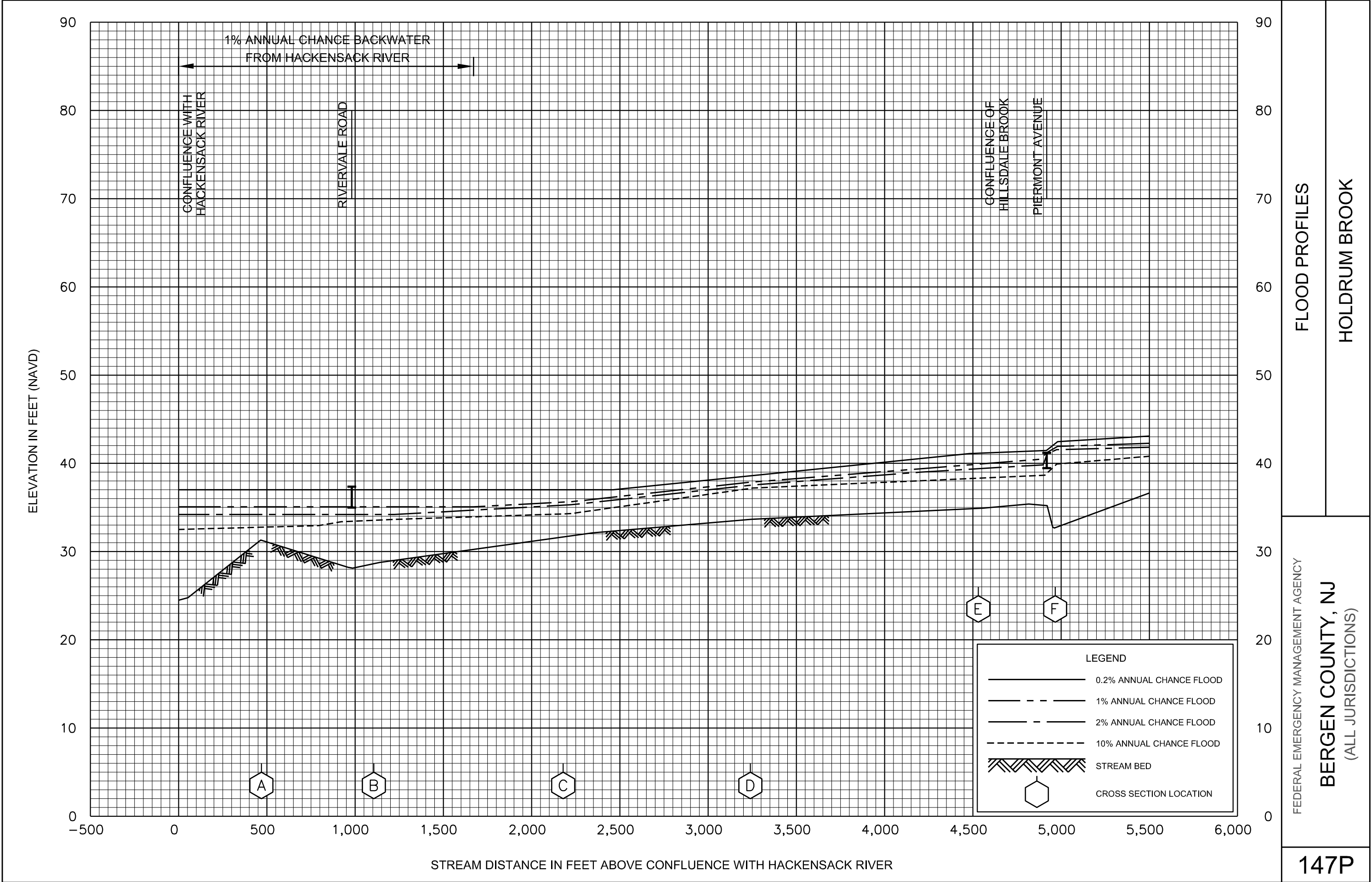
FEDERAL EMERGENCY MANAGEMENT AGENCY

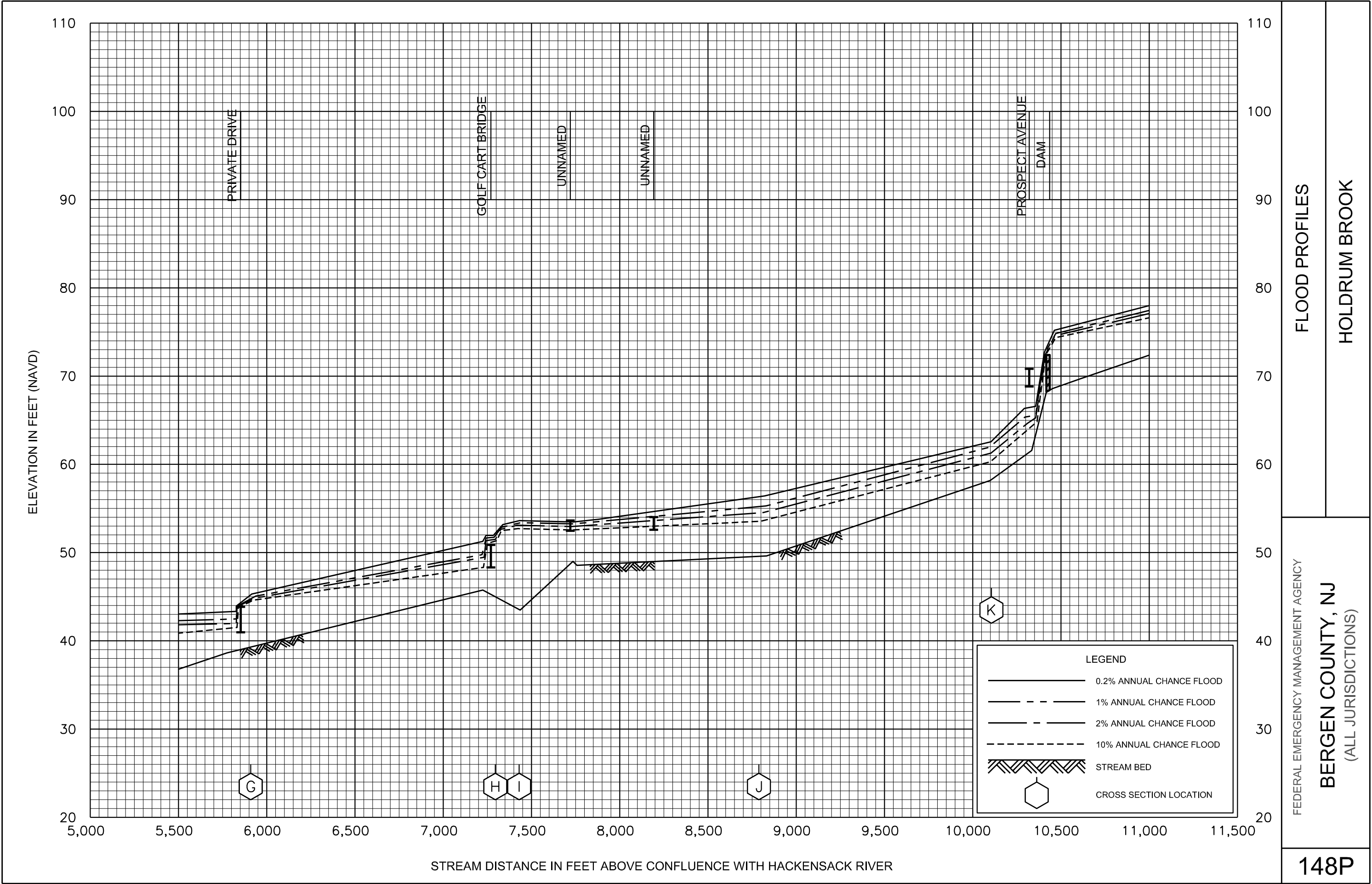
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

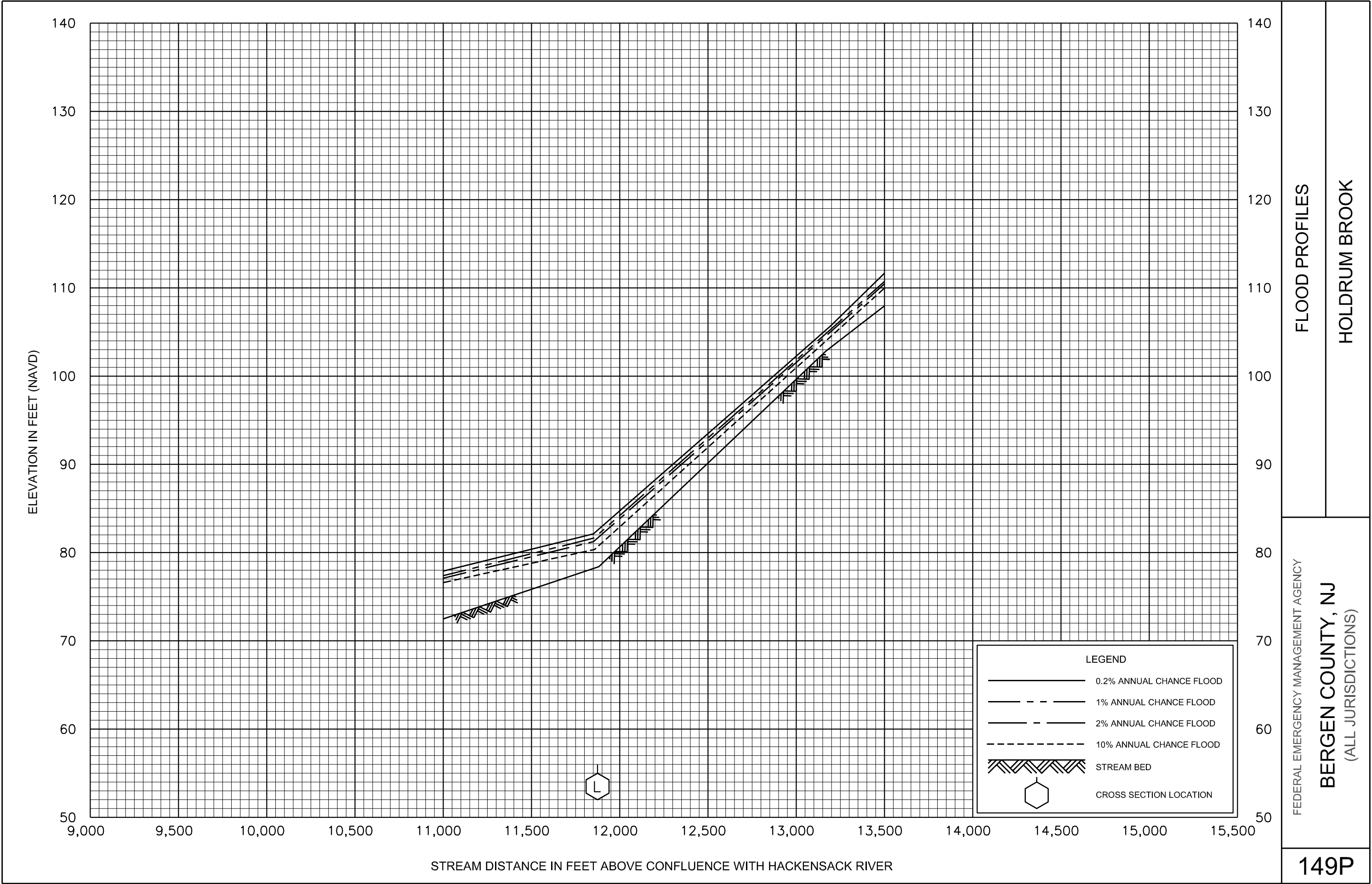
143P











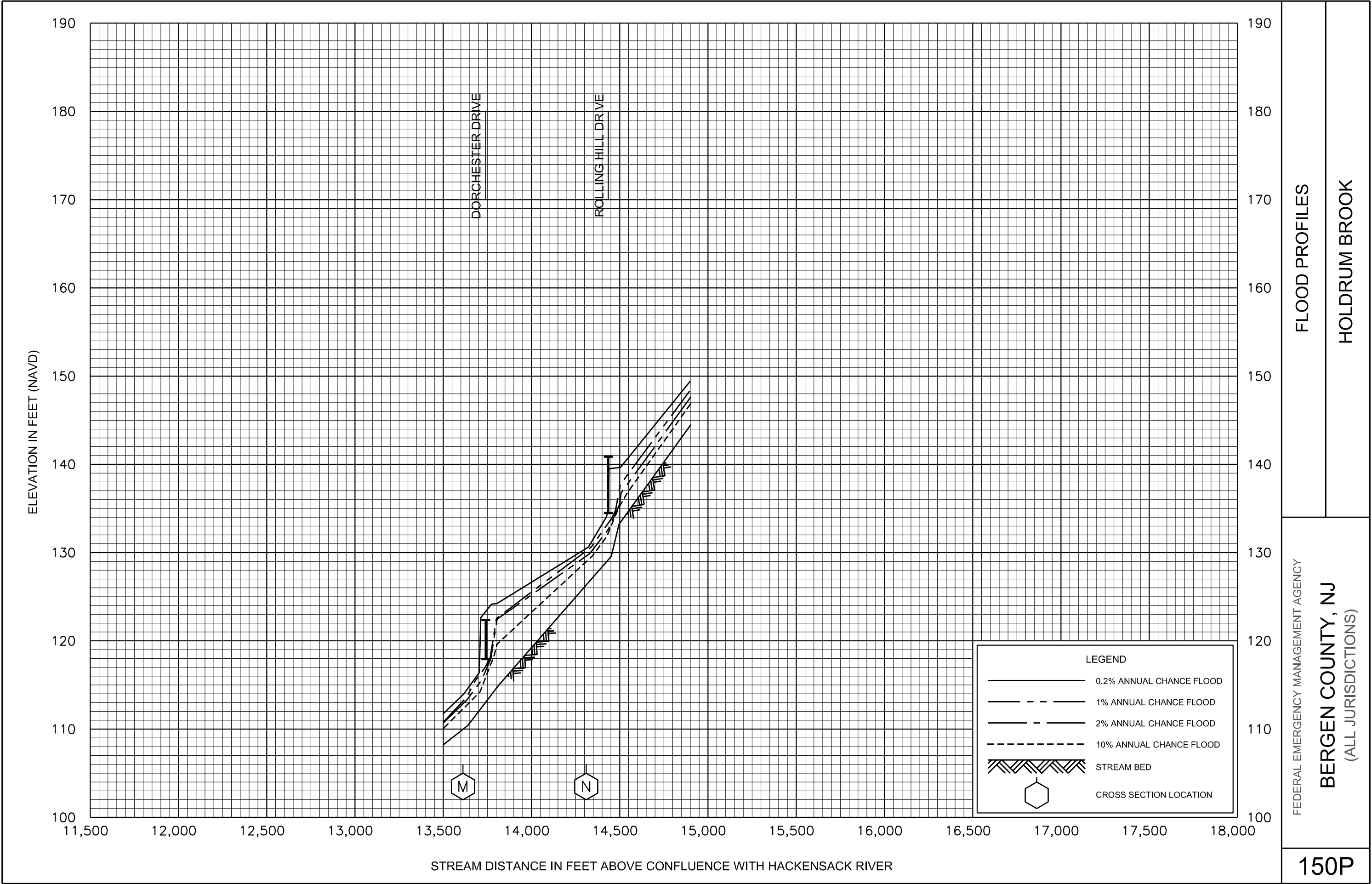
FLOOD PROFILES

HOLDRUM BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

149P

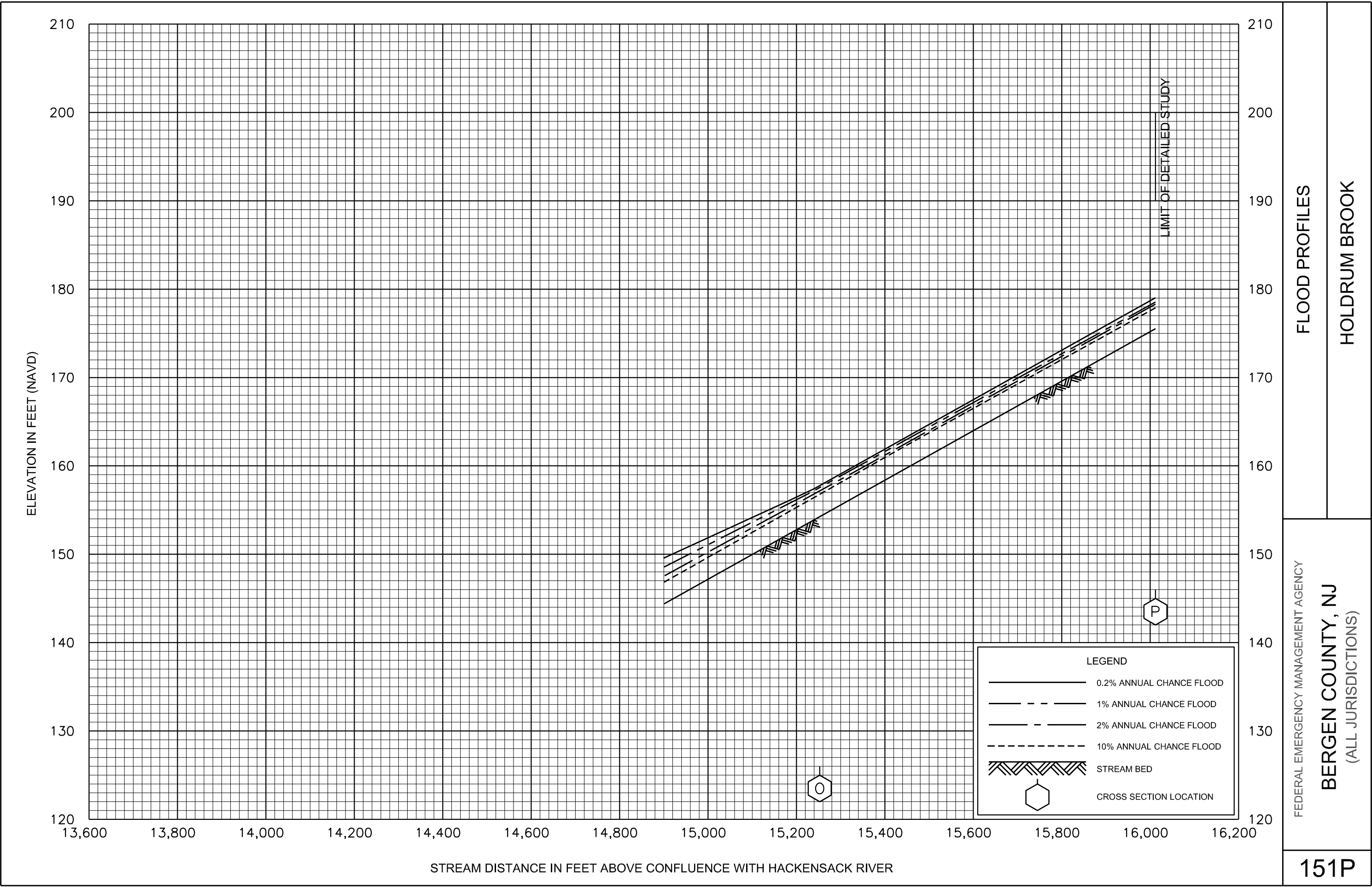


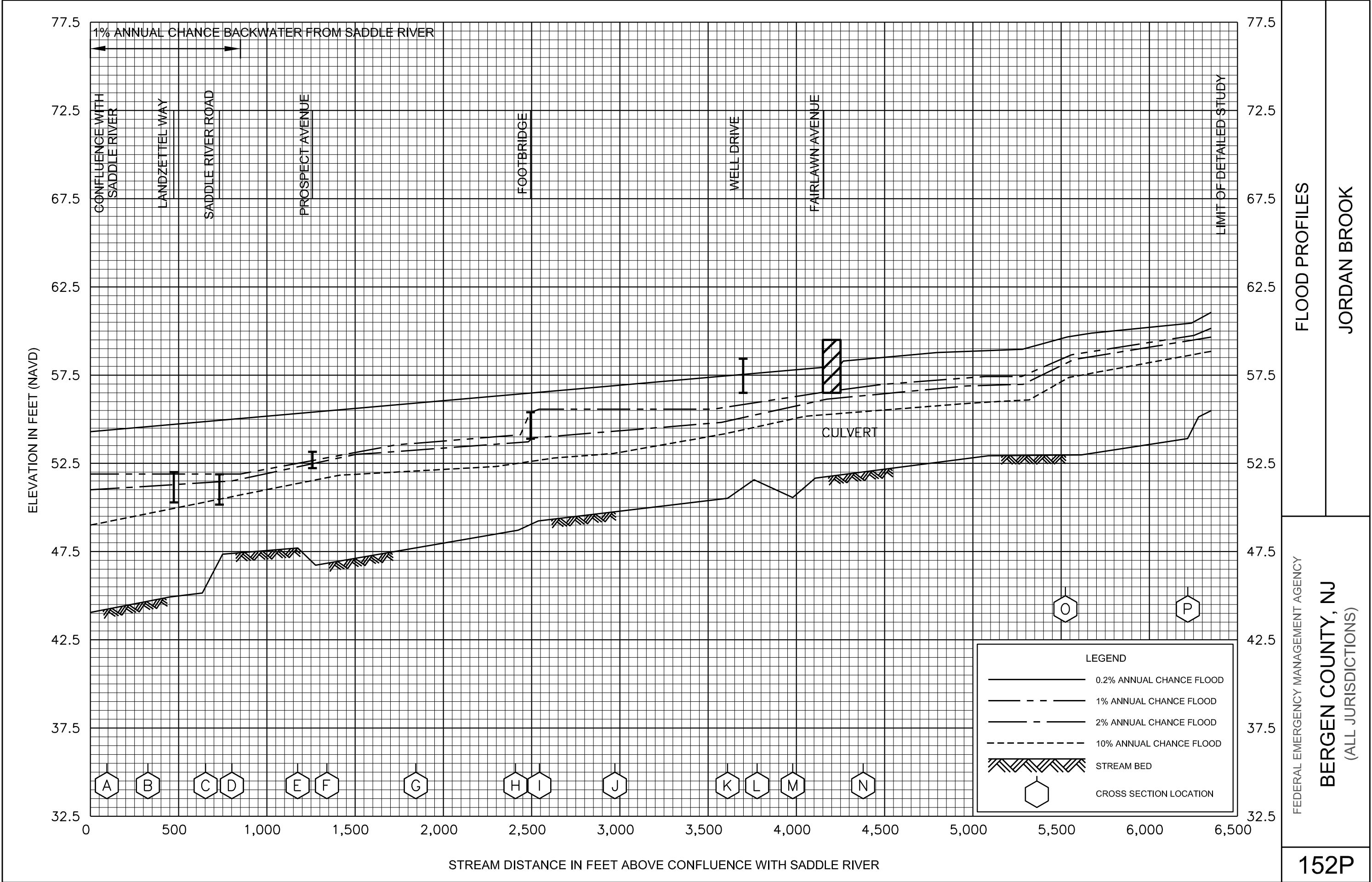
FLOOD PROFILES

HOLDRUM BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)



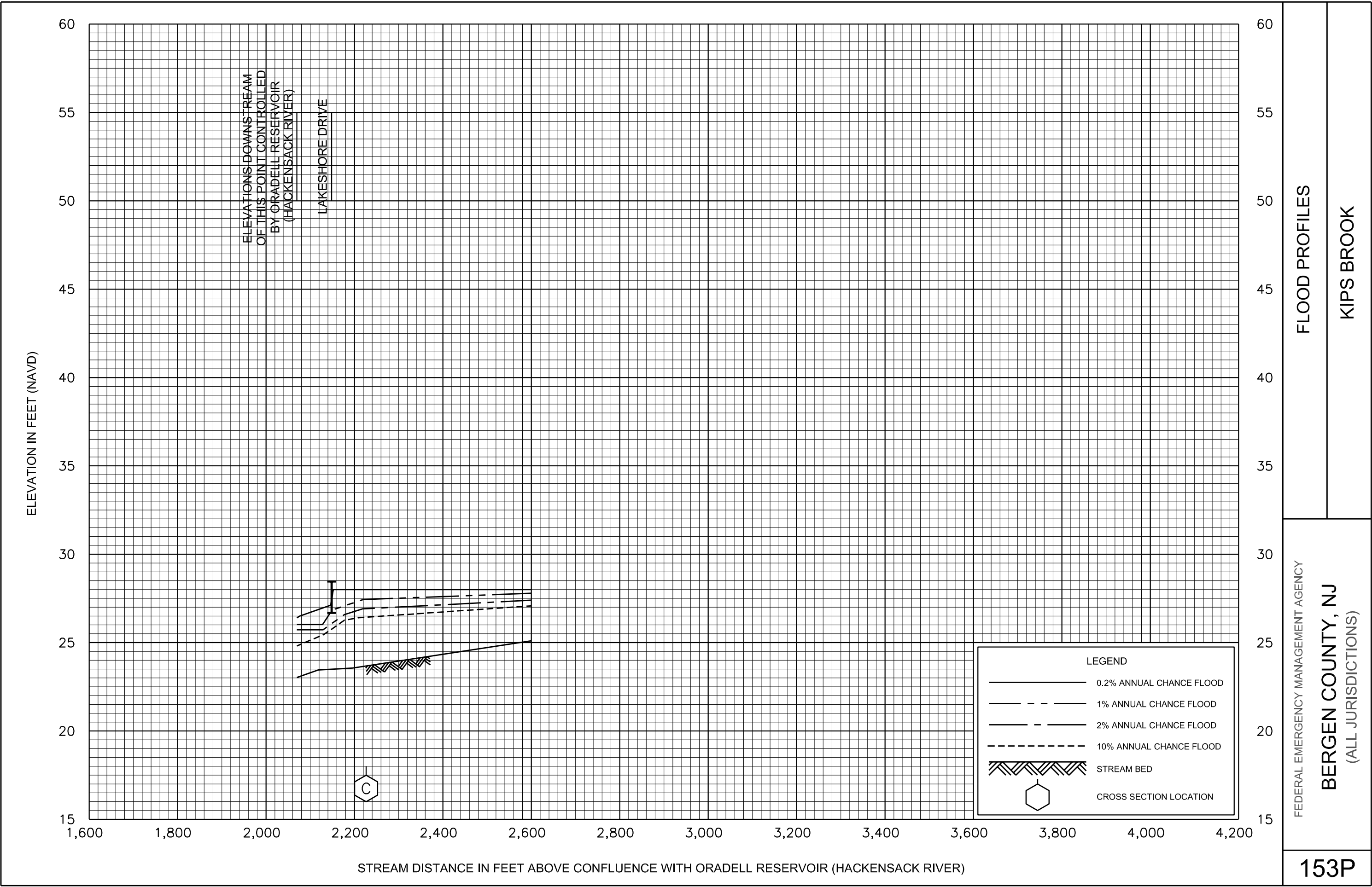


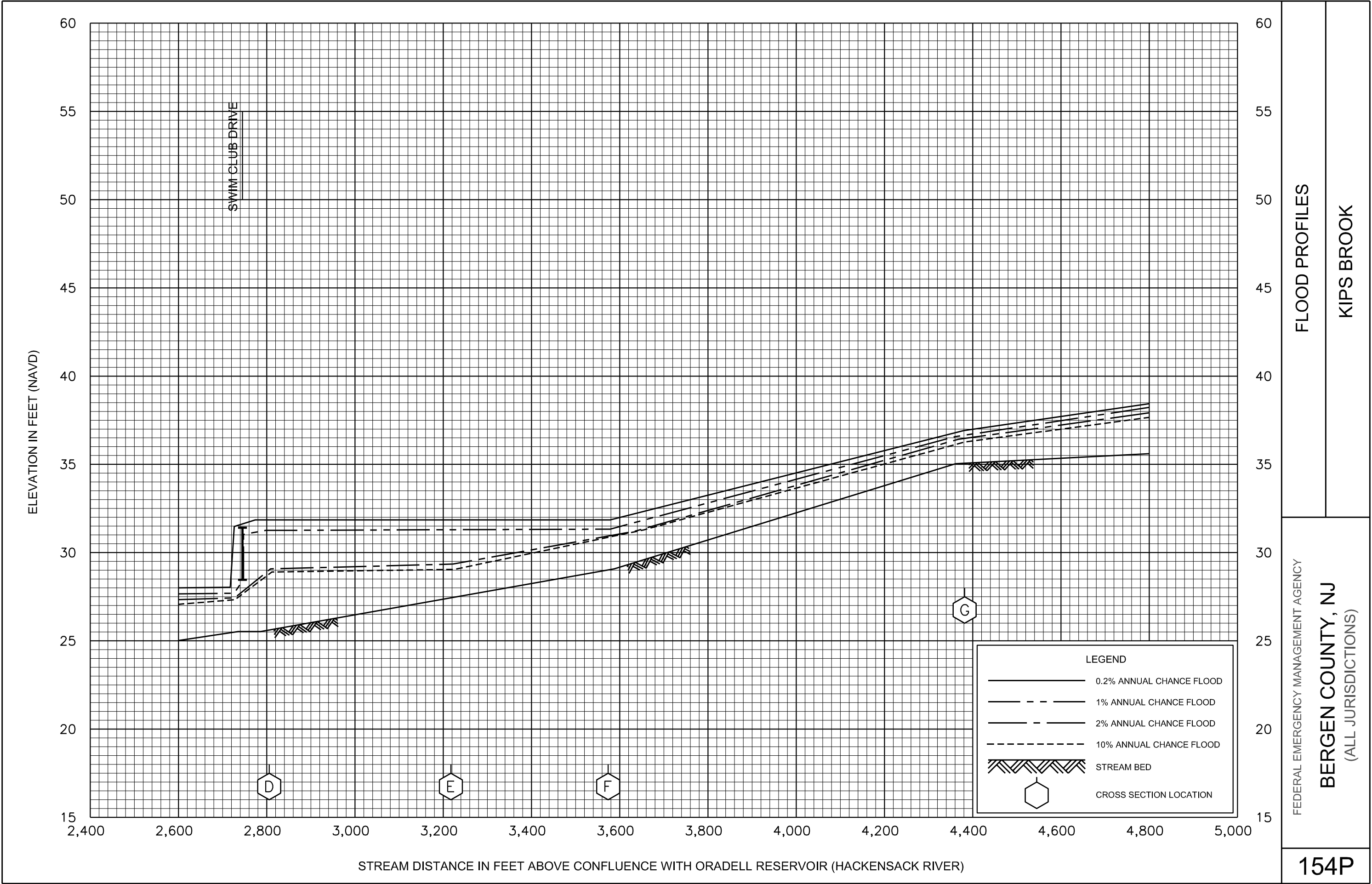
FLOOD PROFILES

JORDAN BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)



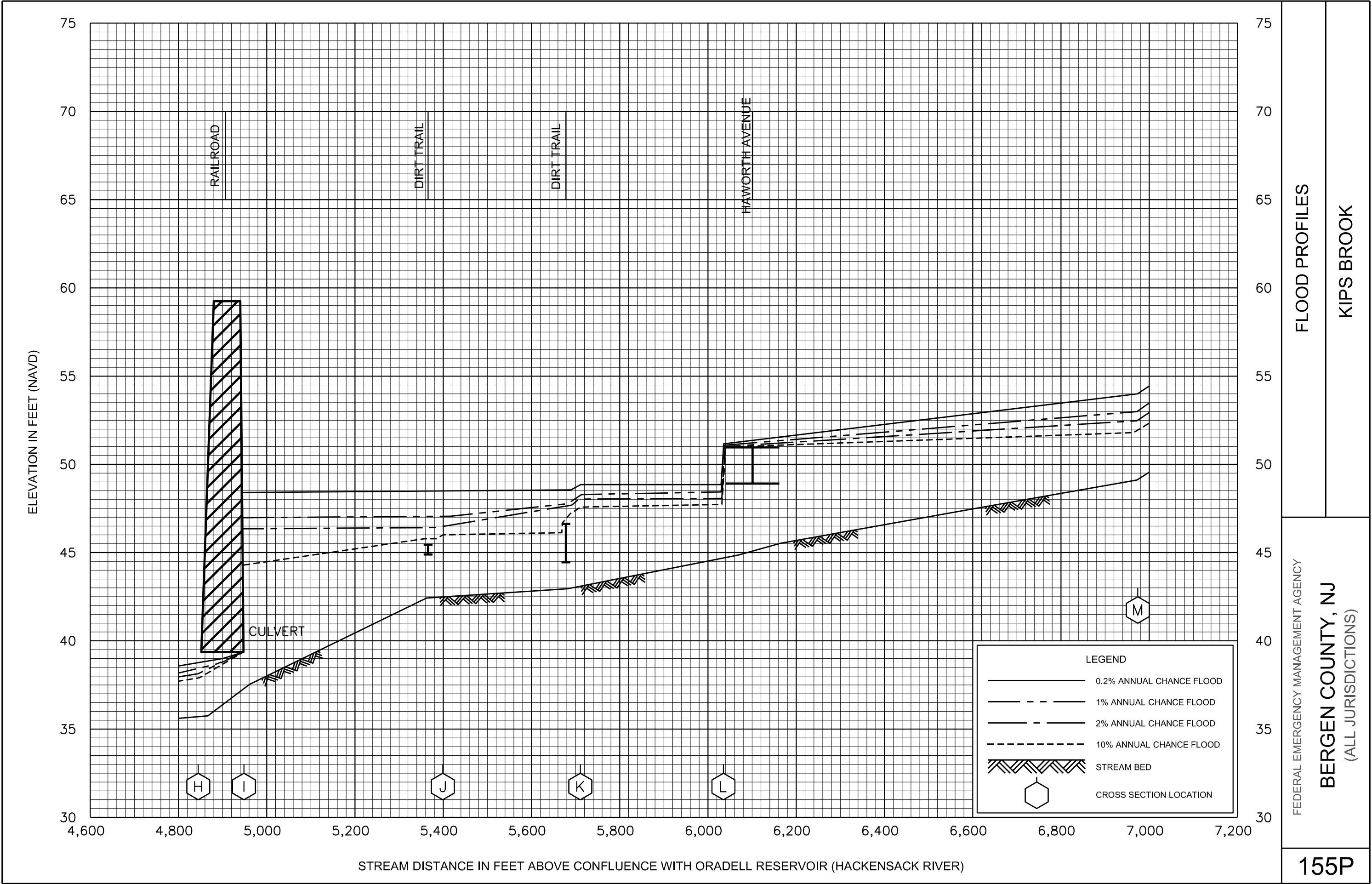


FLOOD PROFILES

KIPS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

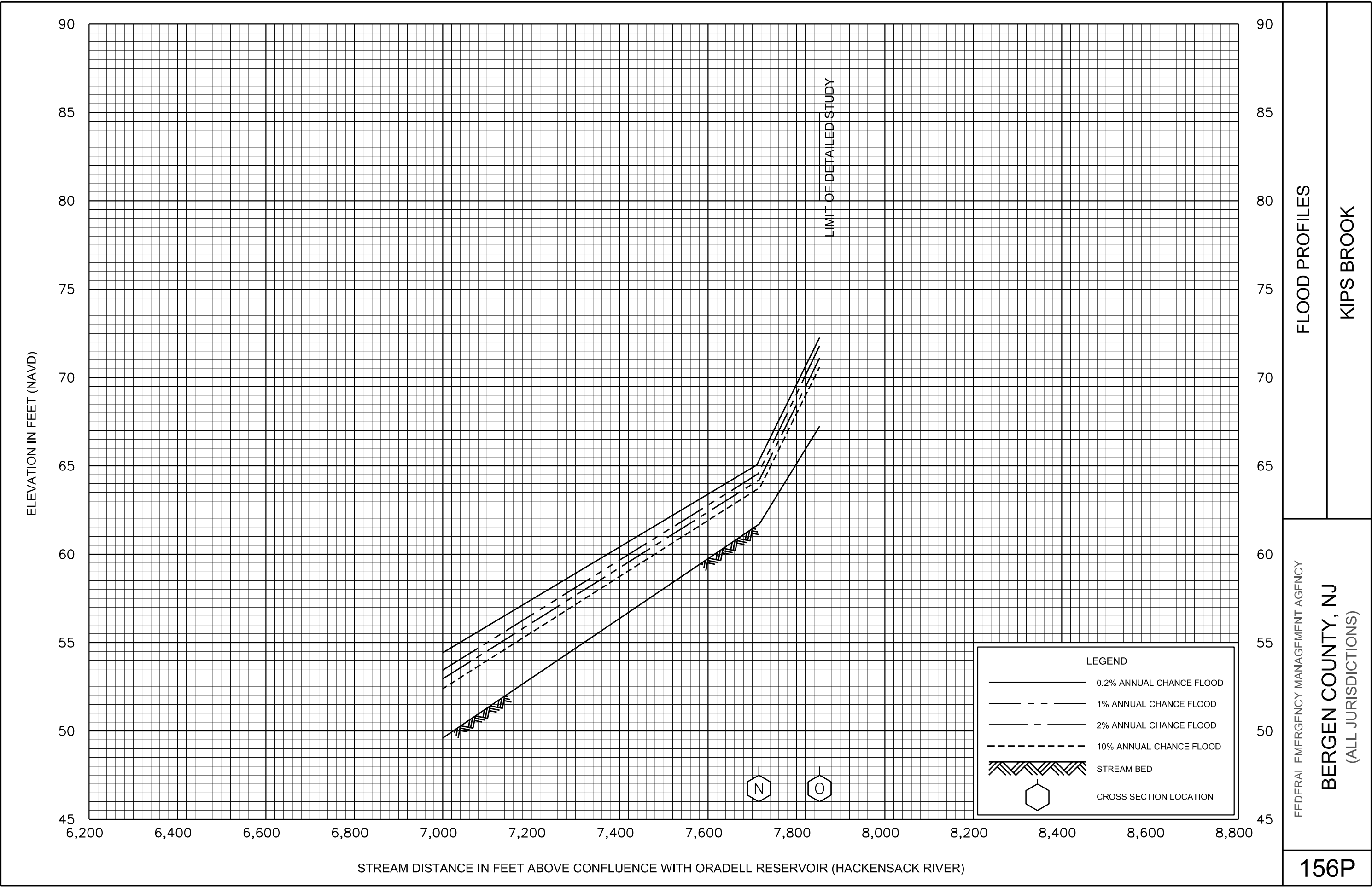


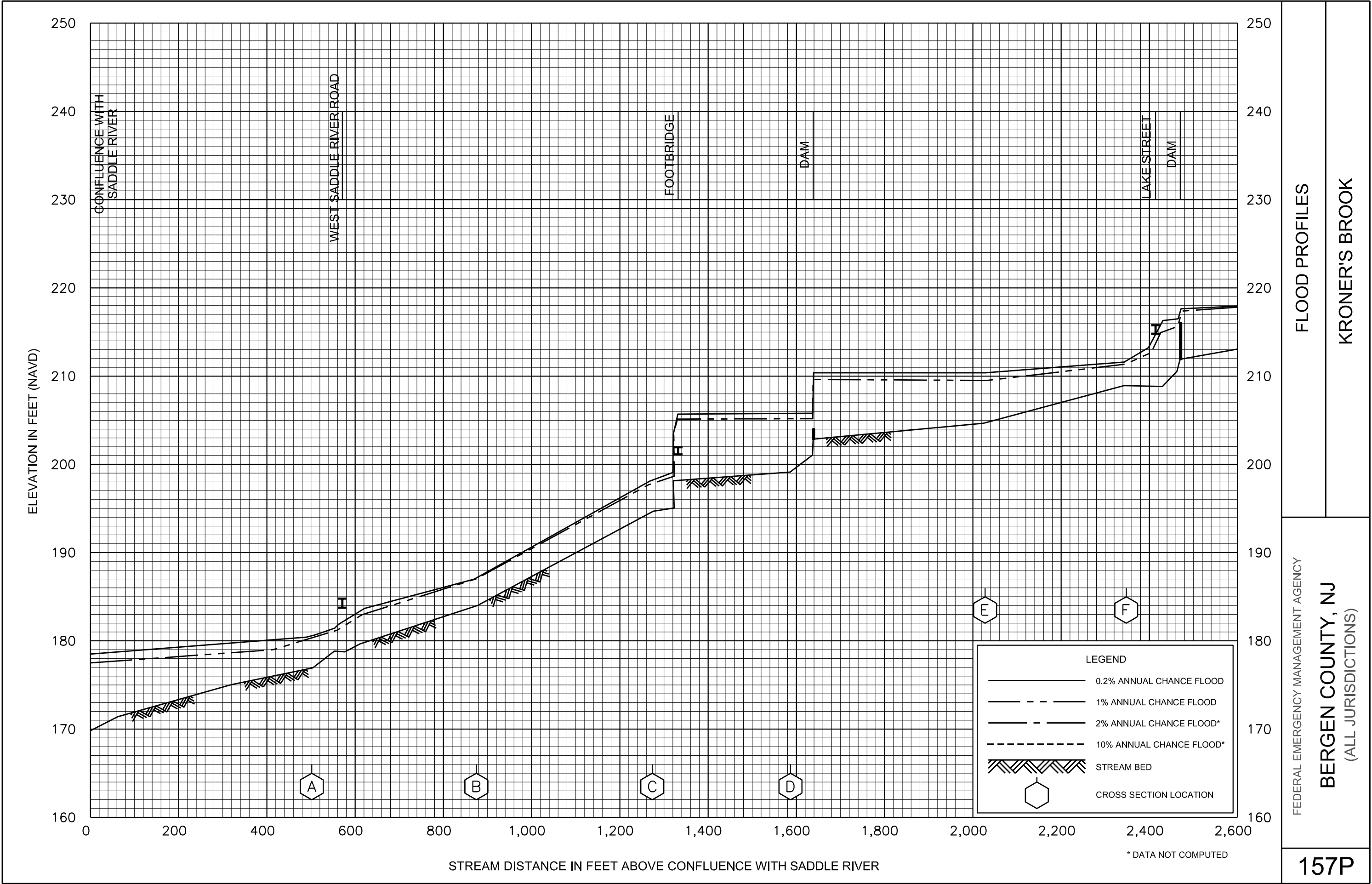
FLOOD PROFILES

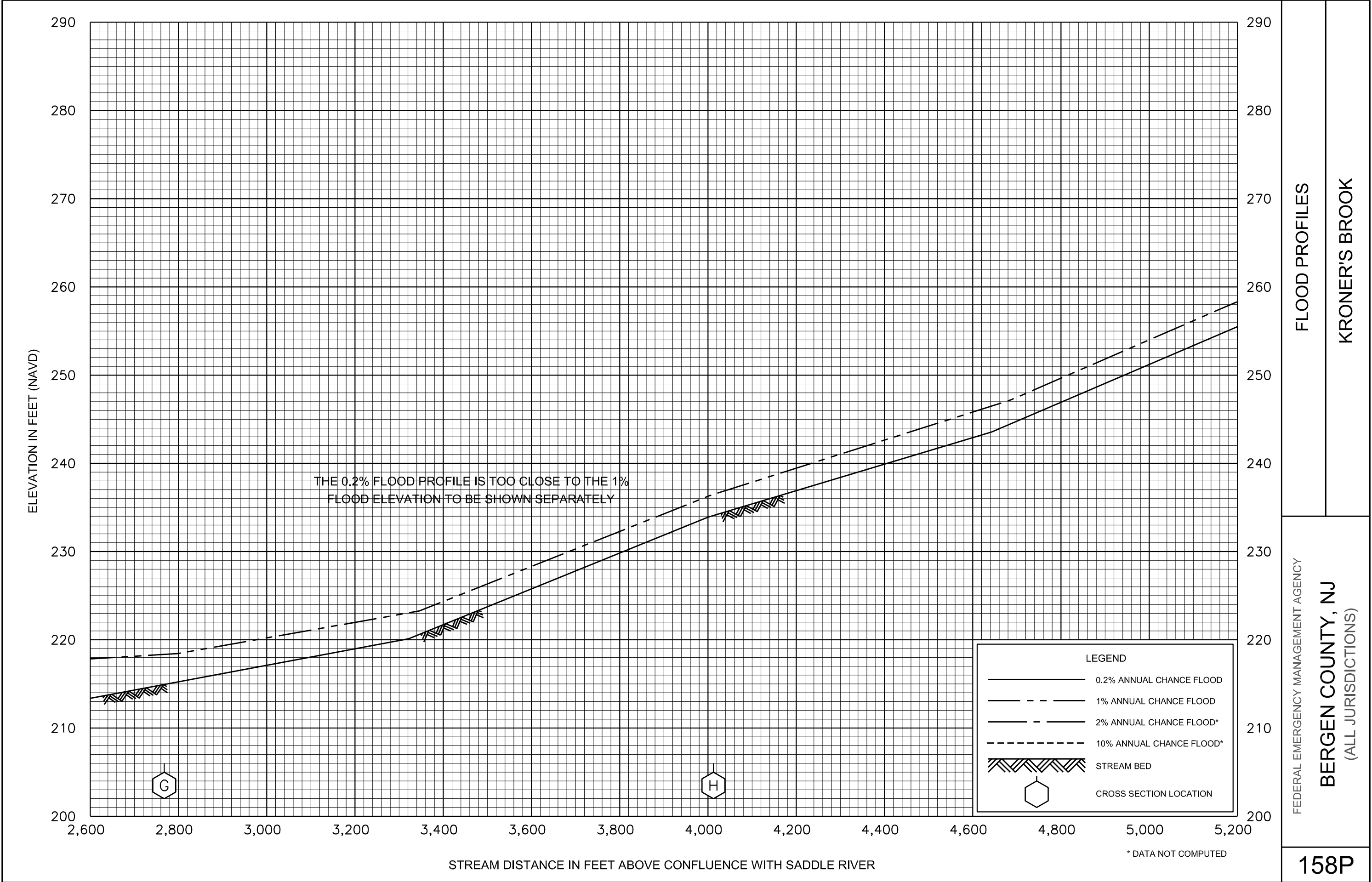
KIPS BROOK

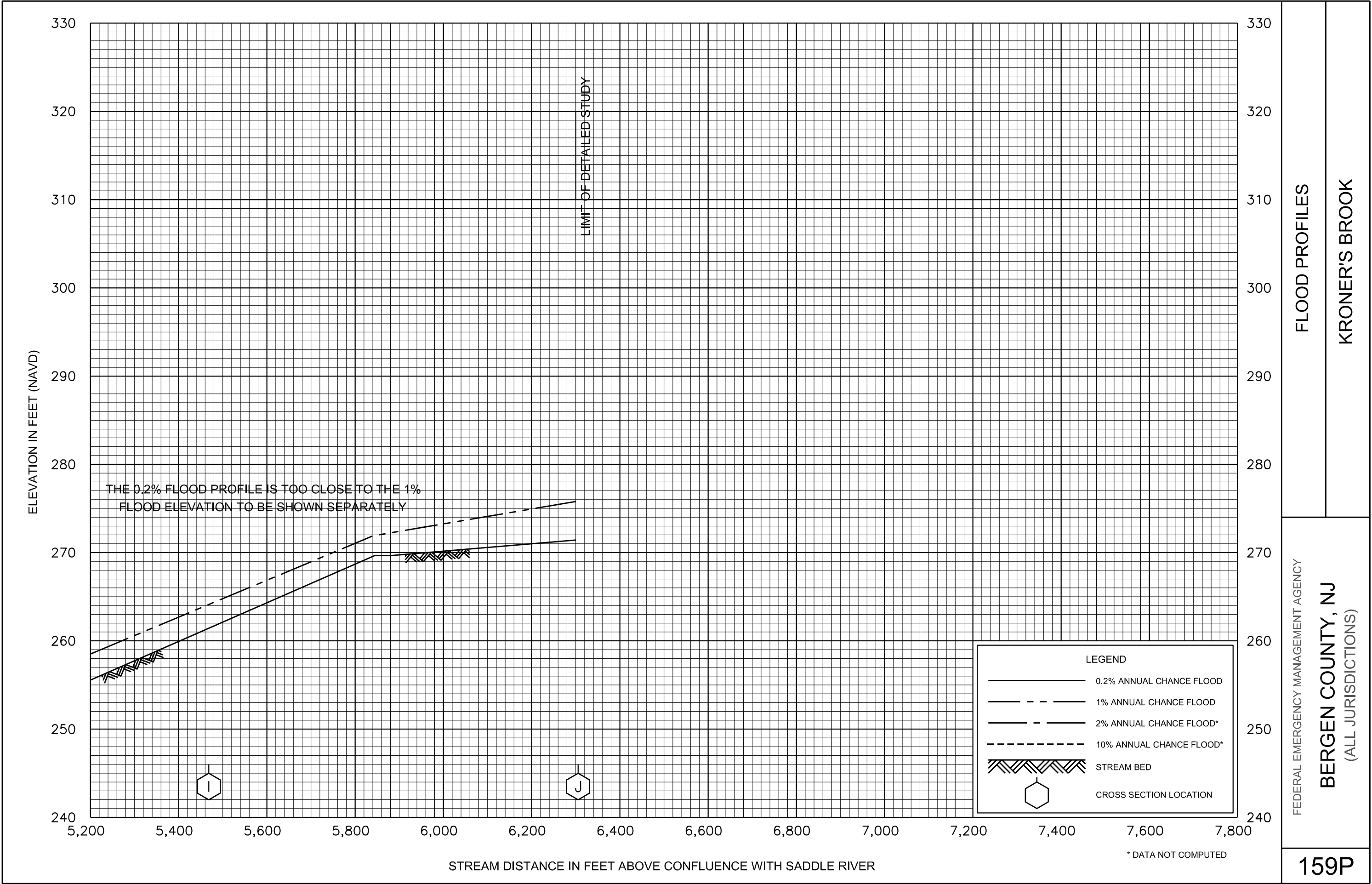
FEDERAL EMERGENCY MANAGEMENT AGENCY

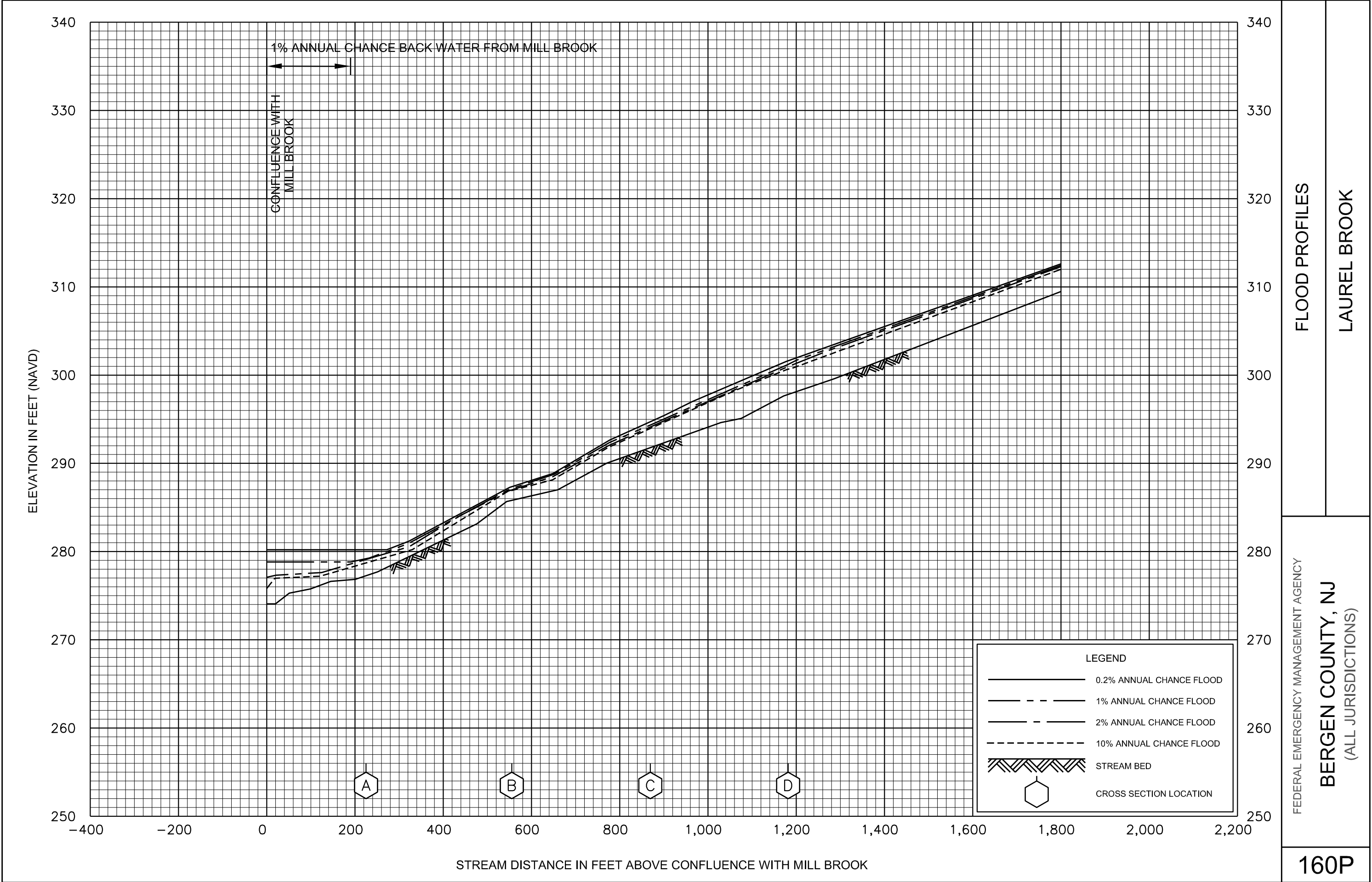
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)









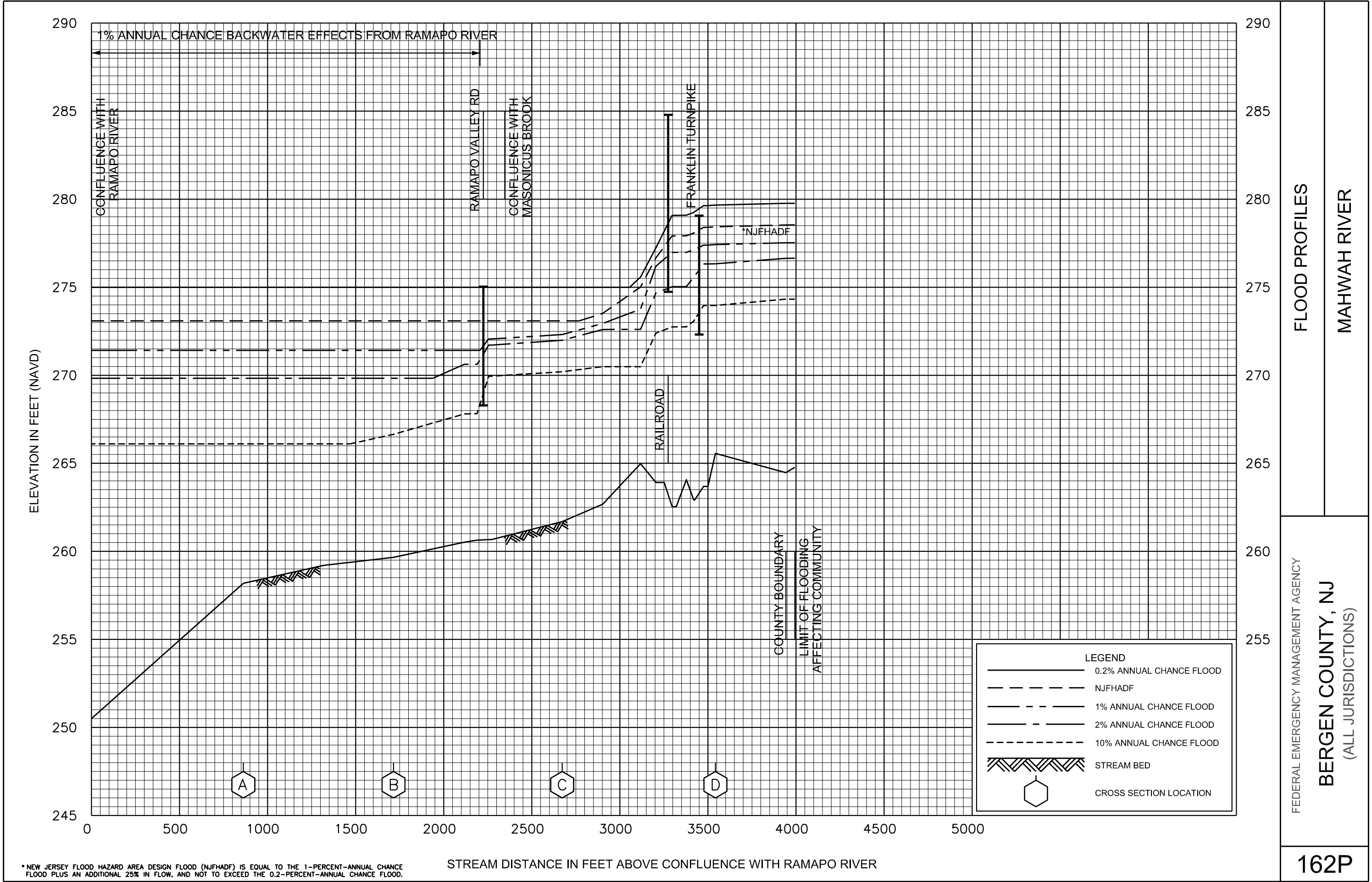


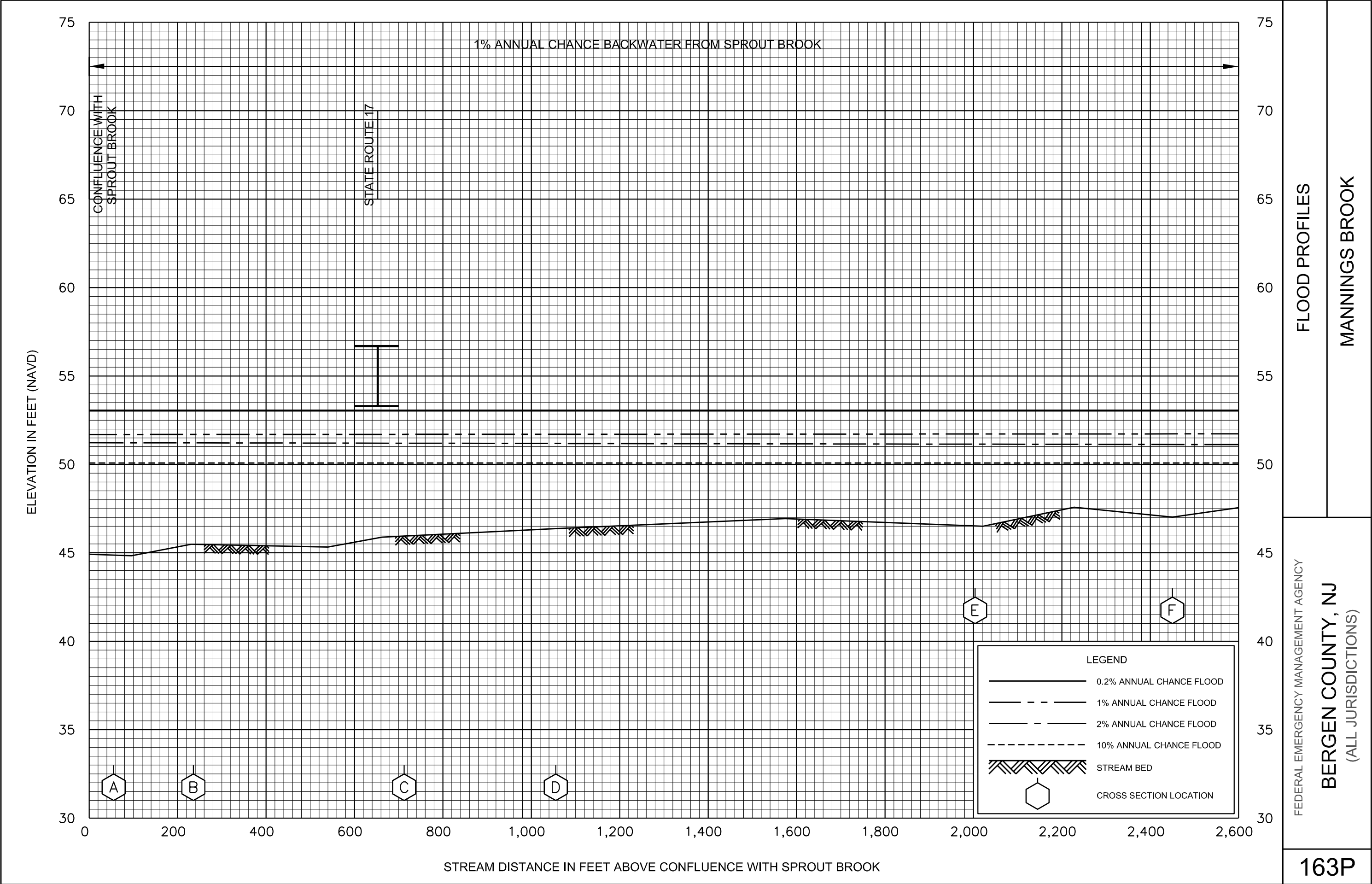
FLOOD PROFILES

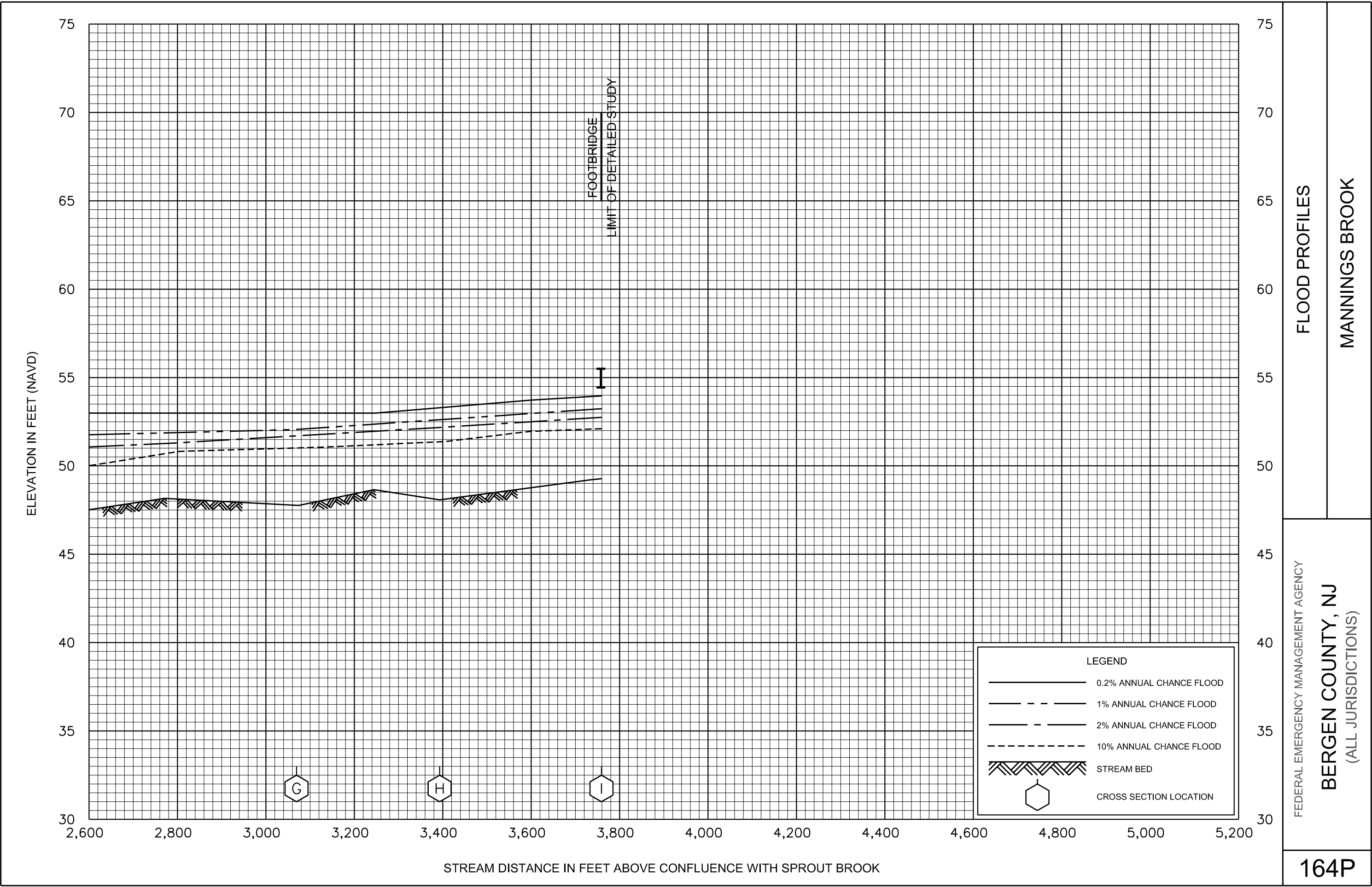
LAUREL BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

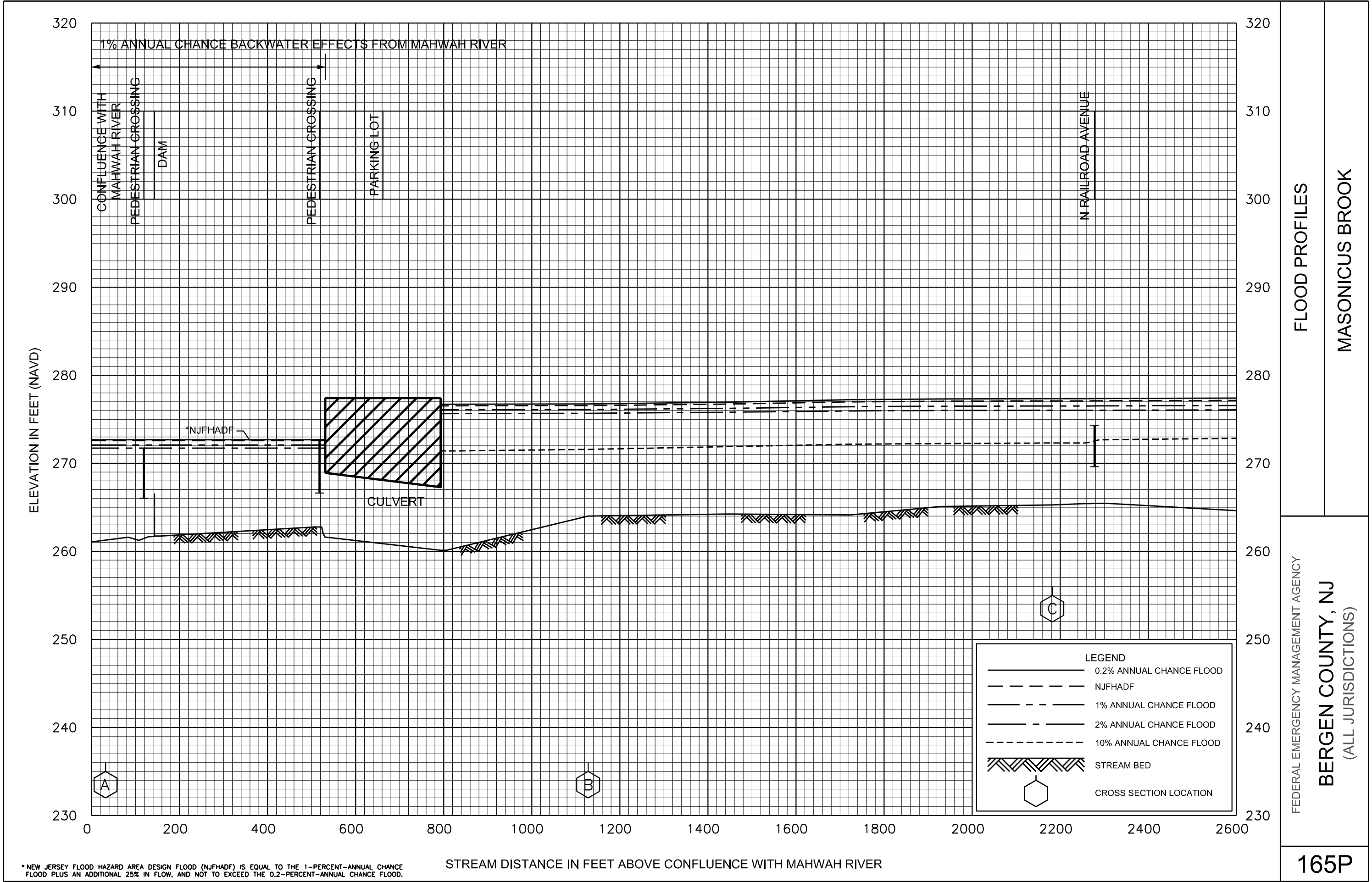


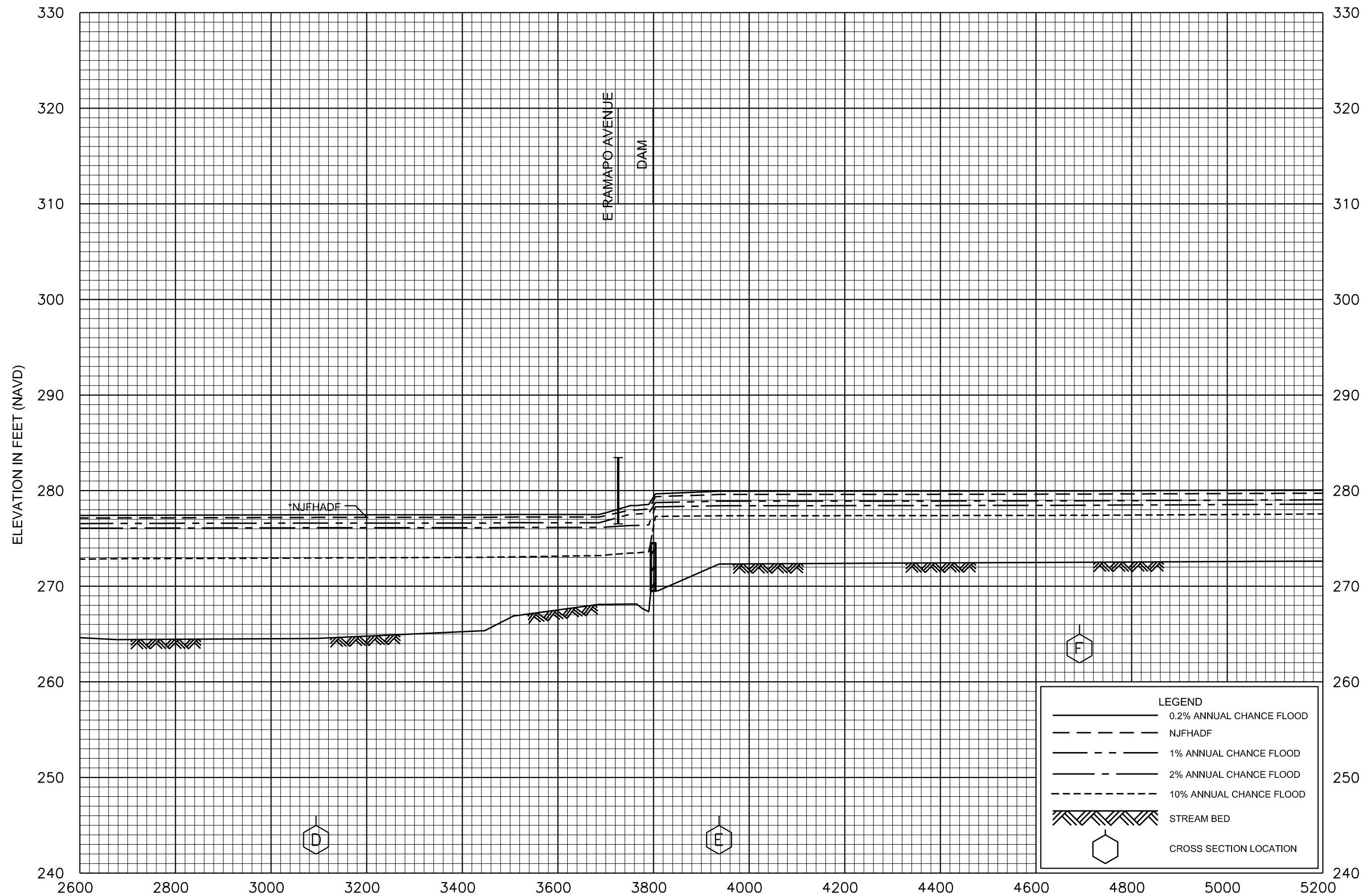




FLOOD PROFILES
MANNINGS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)





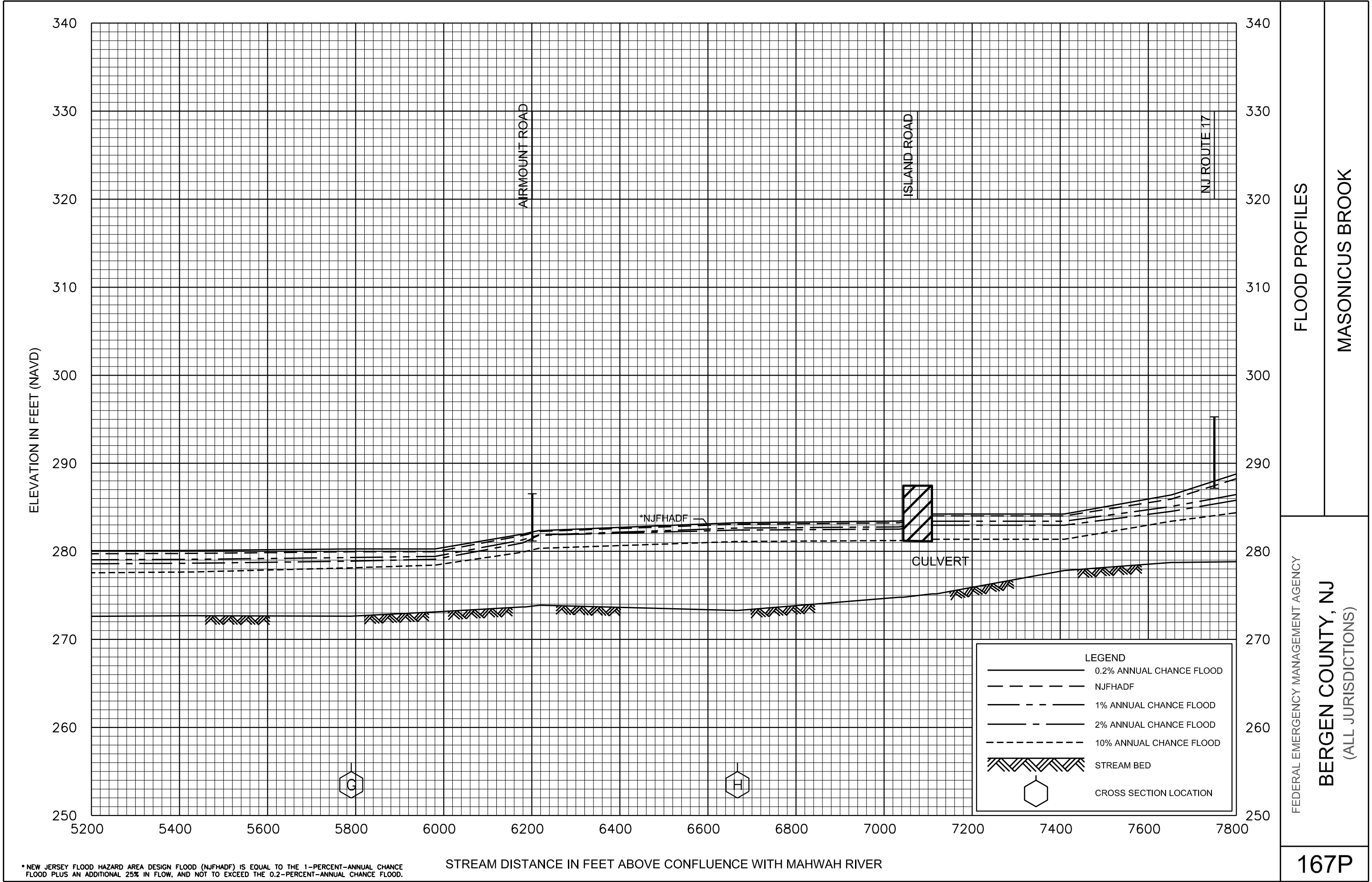
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MAHWAH RIVER

MASONICUS BROOK

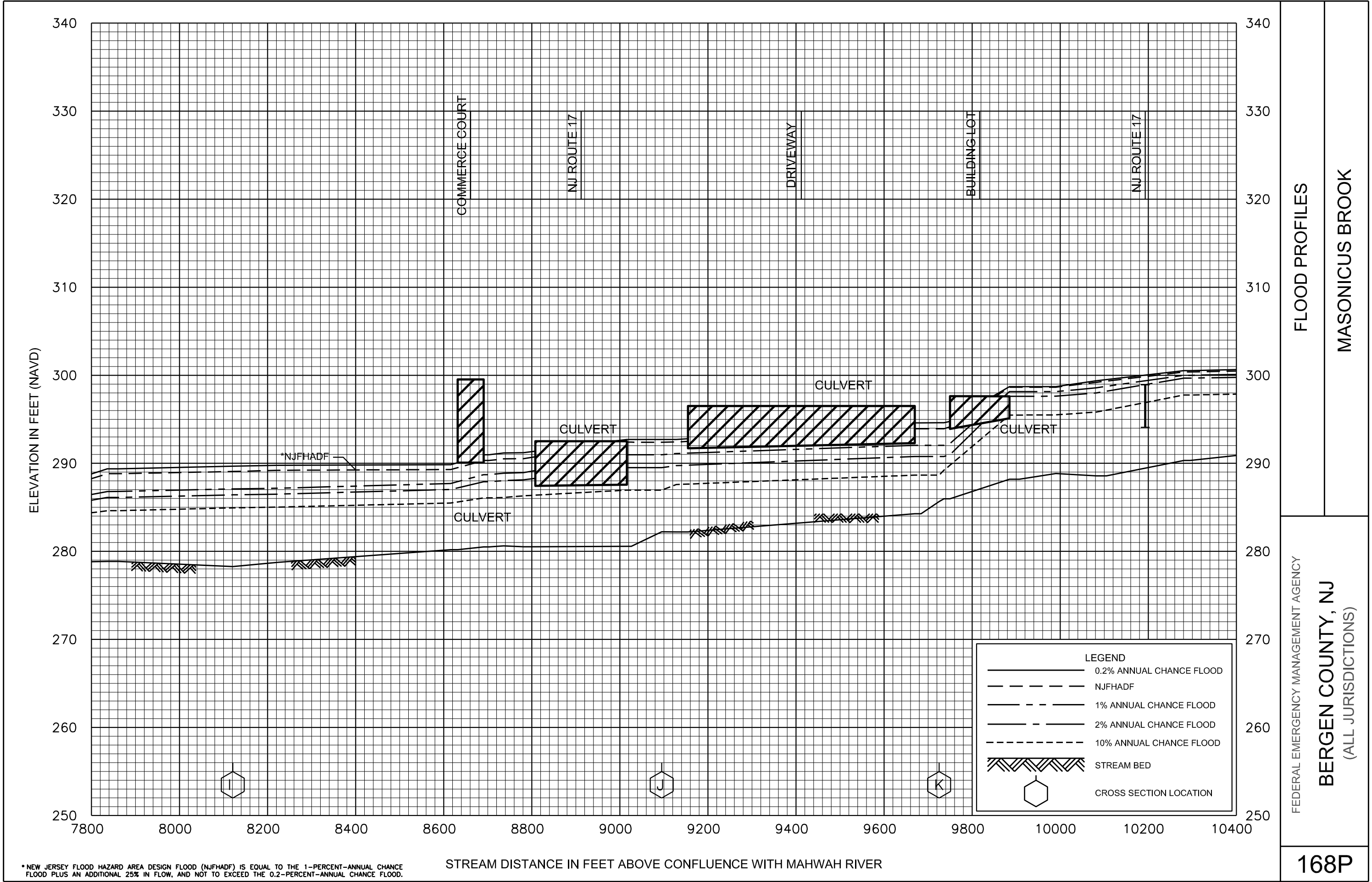
FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

166P



* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

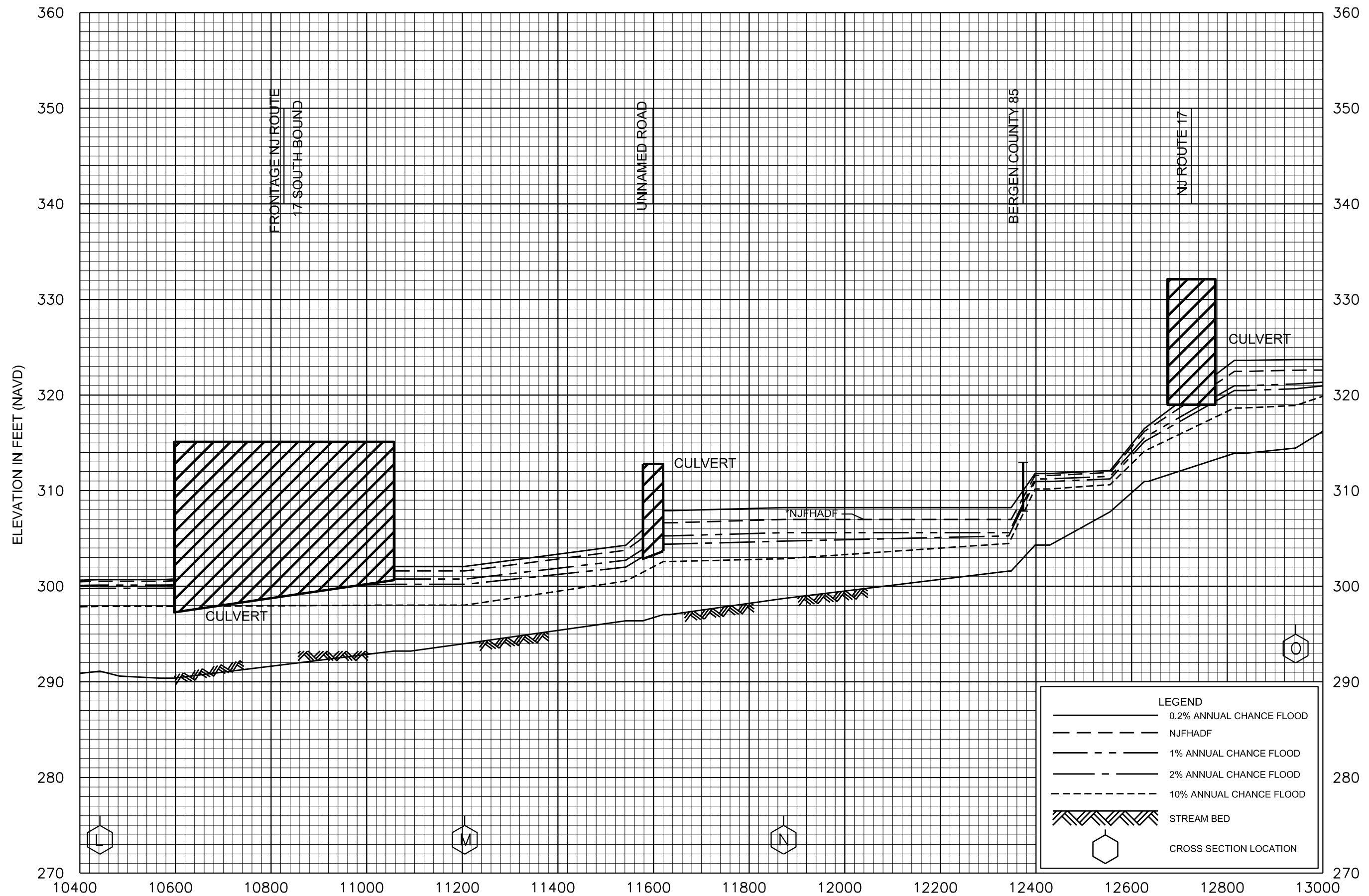


FLOOD PROFILES

MASONICUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

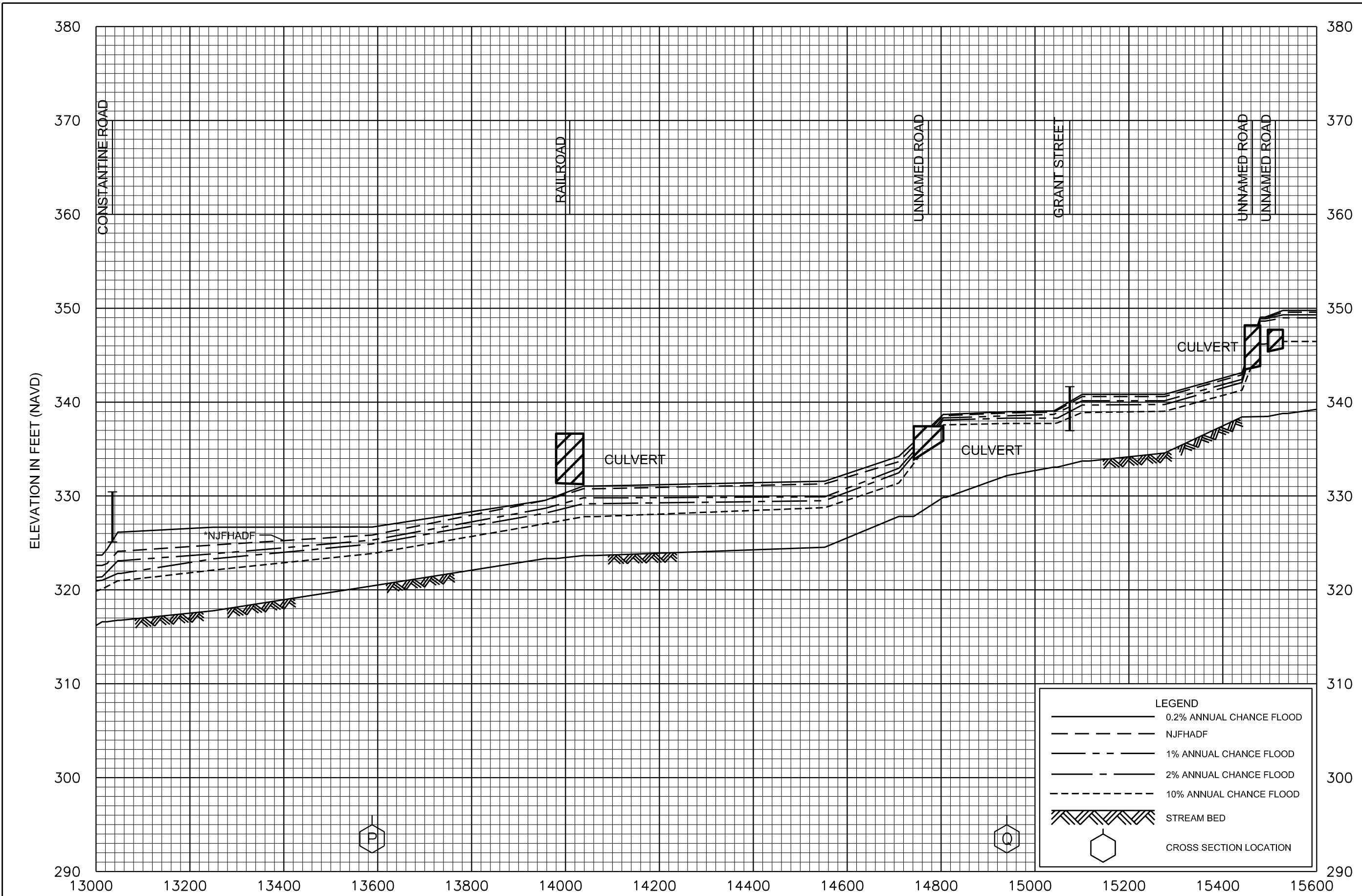


* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MAHWAH RIVER

FLOOD PROFILES
MASONICUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

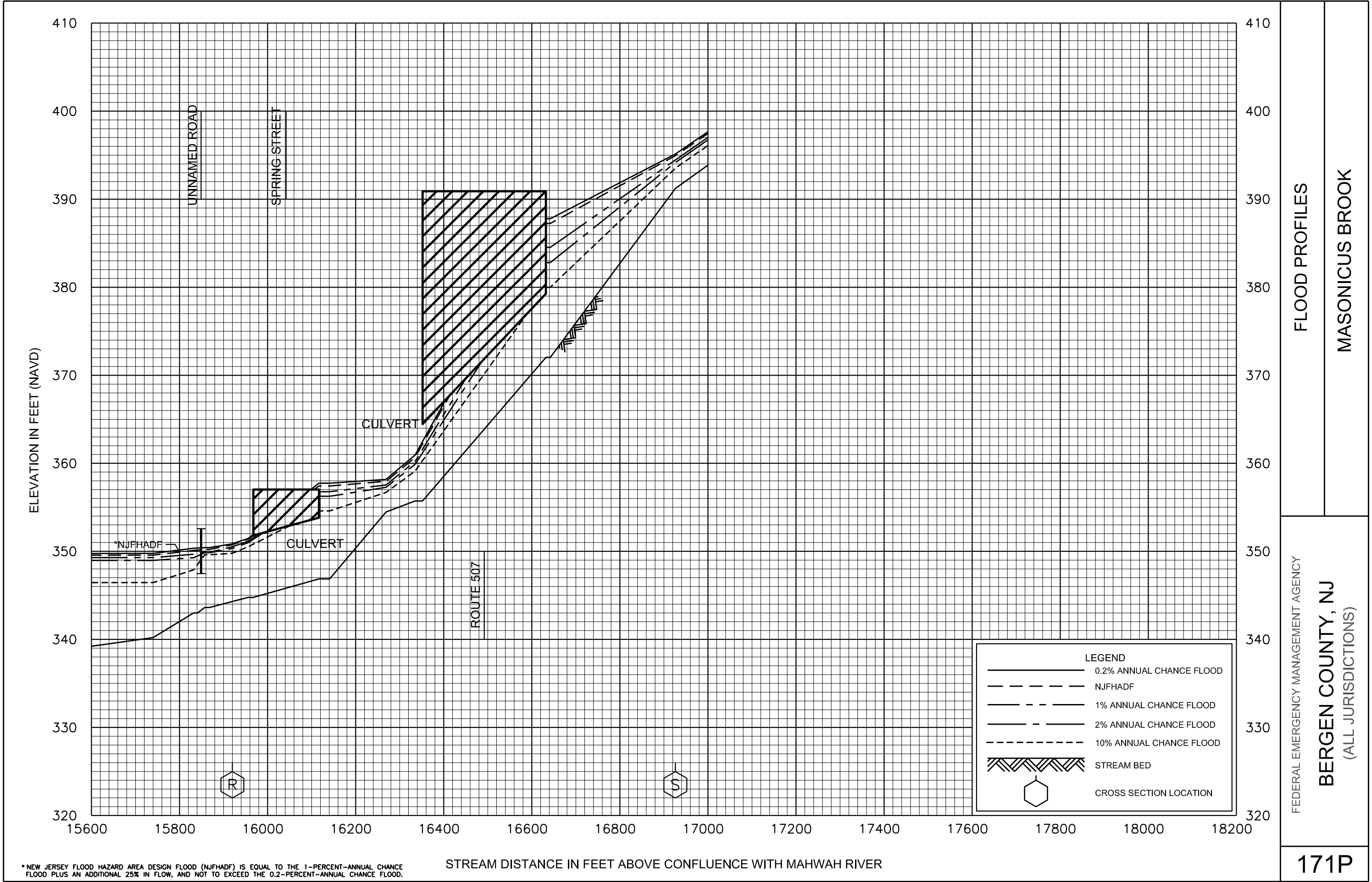


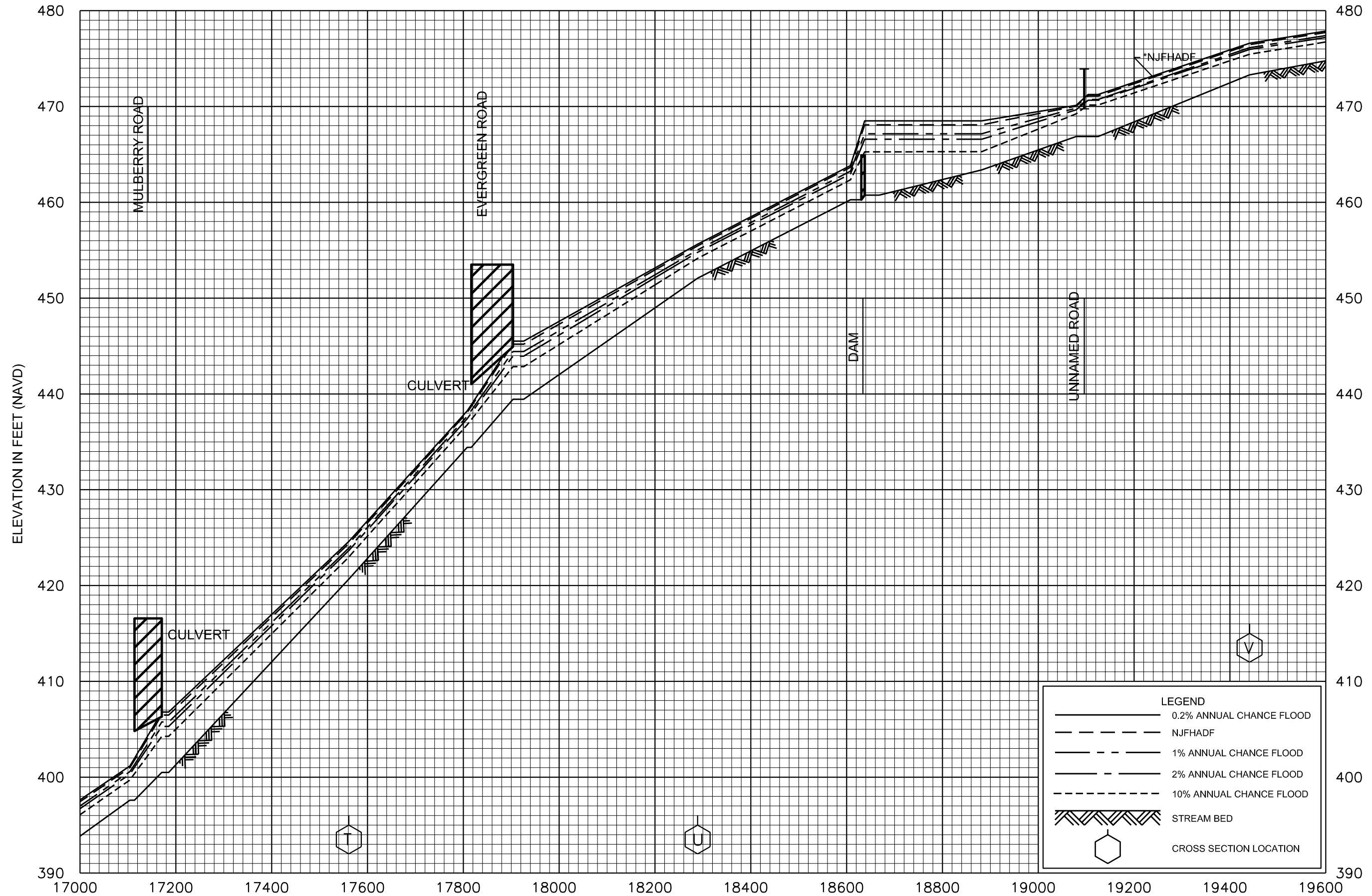
* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MAHWAH RIVER

FLOOD PROFILES
MASONICUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)





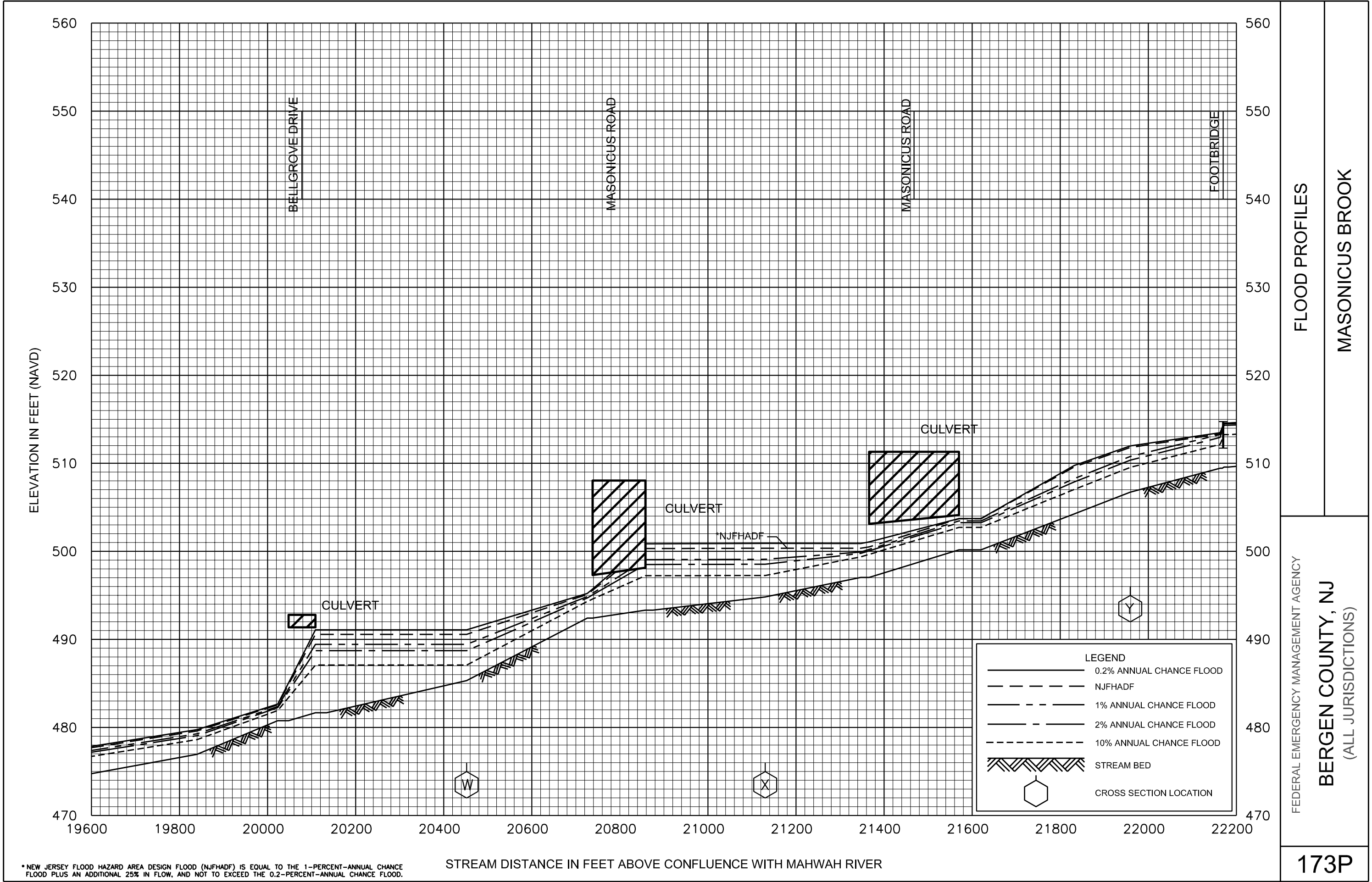
* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

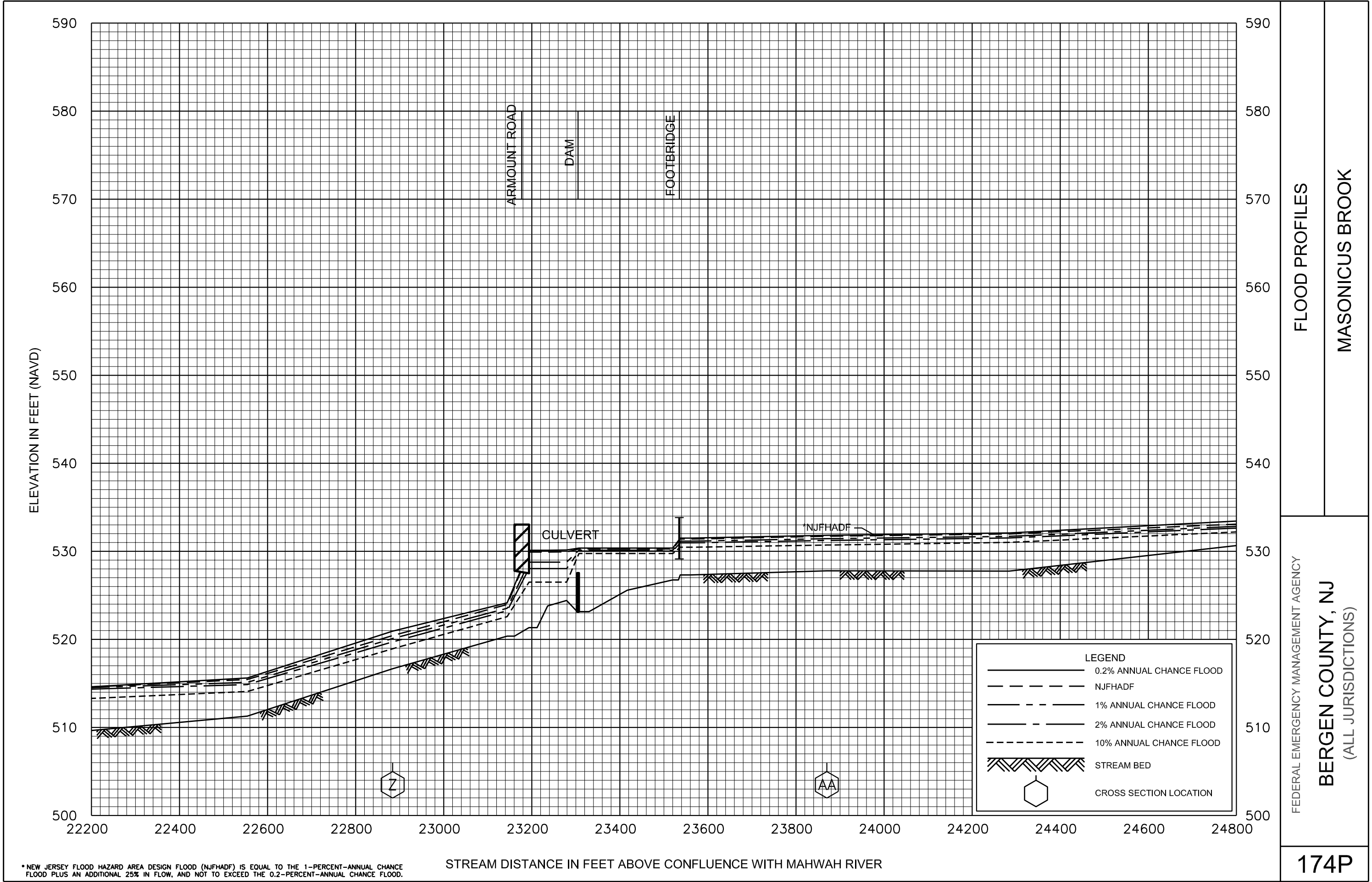
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MAHWAH RIVER

FLOOD PROFILES
MASONICUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

172P





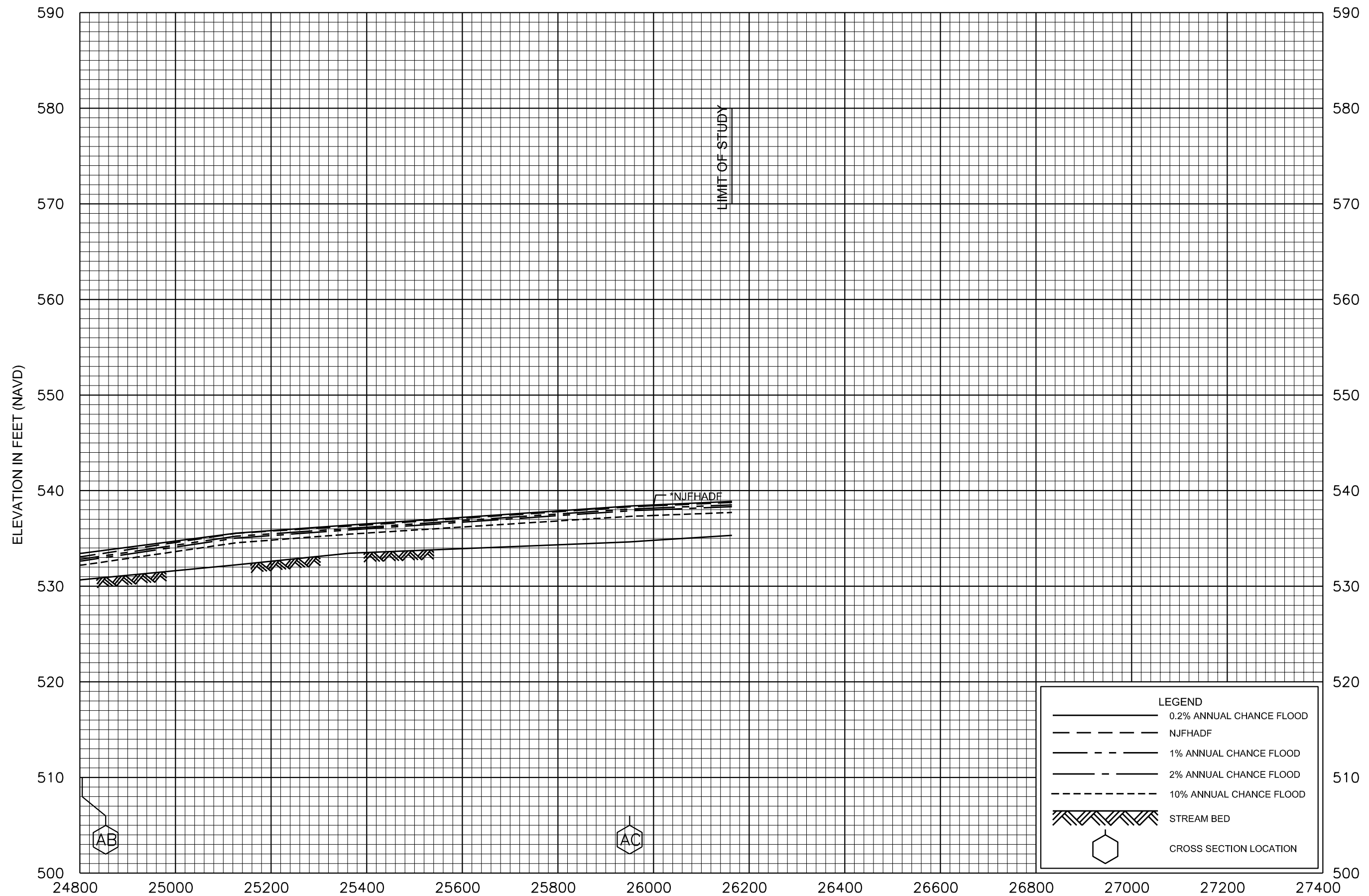
FLOOD PROFILES

MASONICUS BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ

(ALL JURISDICTIONS)



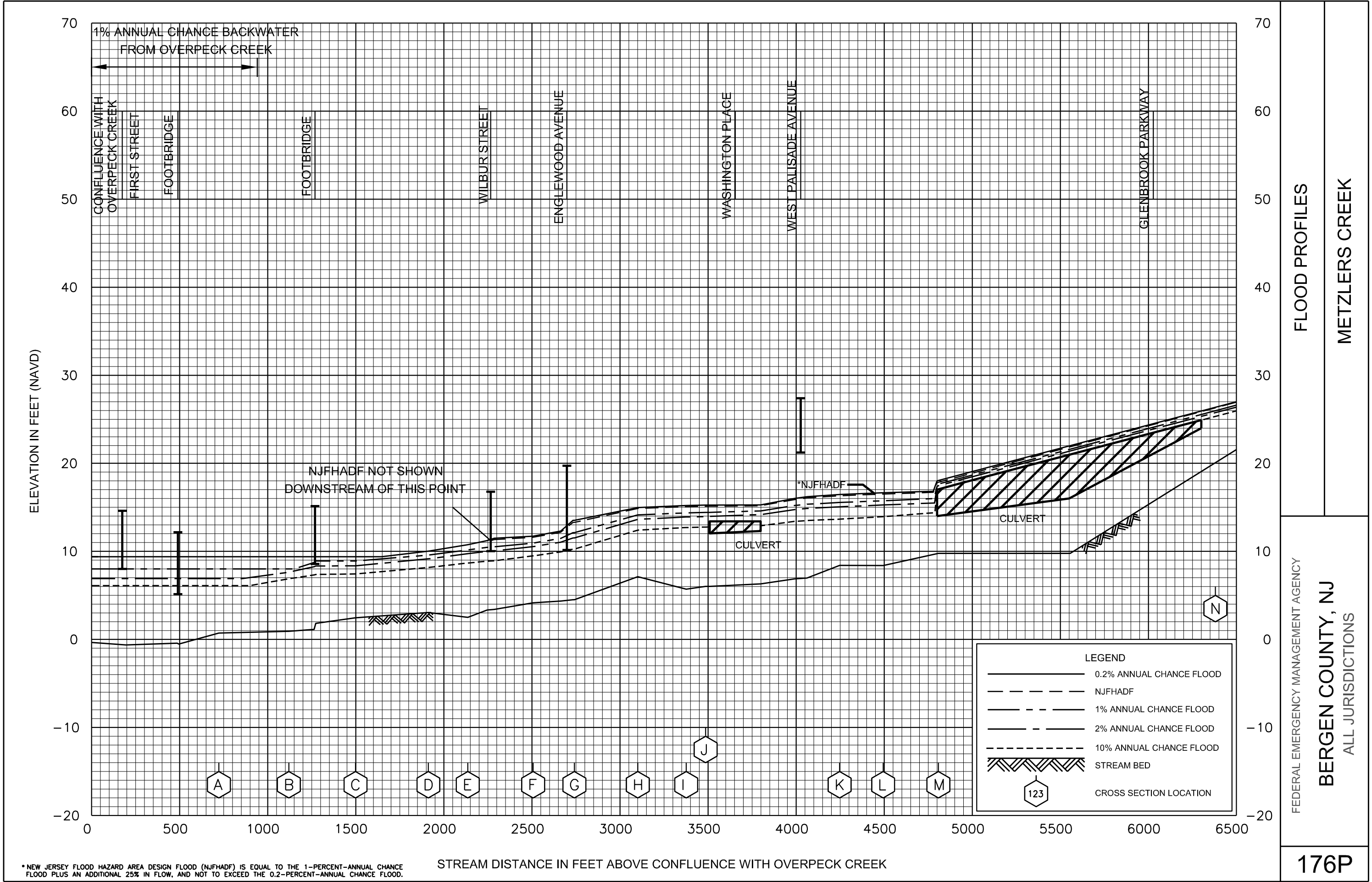
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH MAHWAH RIVER

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)

FLOOD PROFILES

MASONICUS BROOK

175P



* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL CHANCE FLOOD.

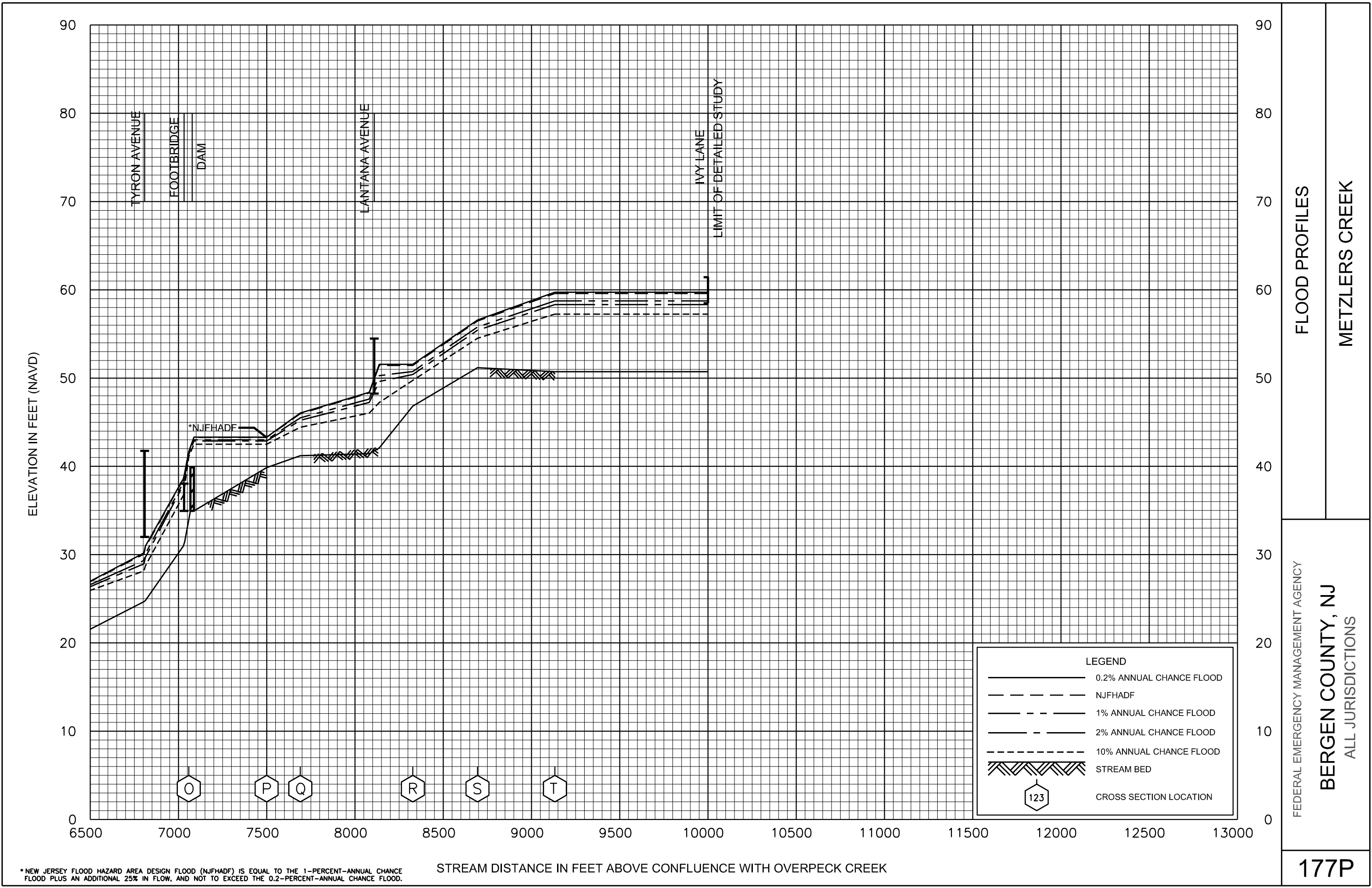
STREAM DISTANCE IN FEET ABOVE CONFLUENCE WITH OVERPECK CREEK

FLOOD PROFILES

METZLERS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
ALL JURISDICTIONS



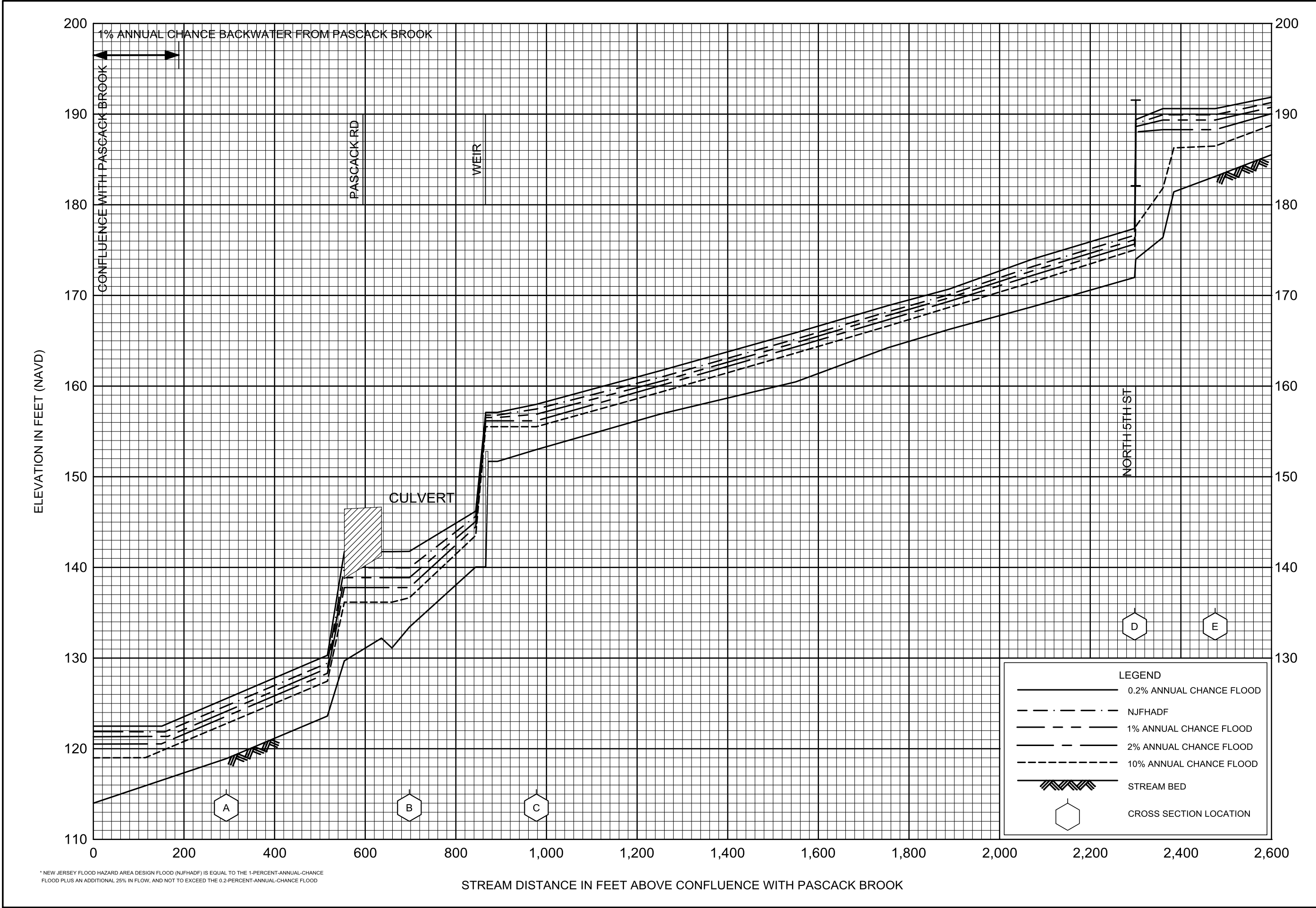
FLOOD PROFILES

METZLERS CREEK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ

ALL JURISDICTIONS



* NEW JERSEY FLOOD HAZARD AREA DESIGN FLOOD (NJFHADF) IS EQUAL TO THE 1-PERCENT-ANNUAL-CHANCE FLOOD PLUS AN ADDITIONAL 25% IN FLOW, AND NOT TO EXCEED THE 0.2-PERCENT-ANNUAL-CHANCE FLOOD

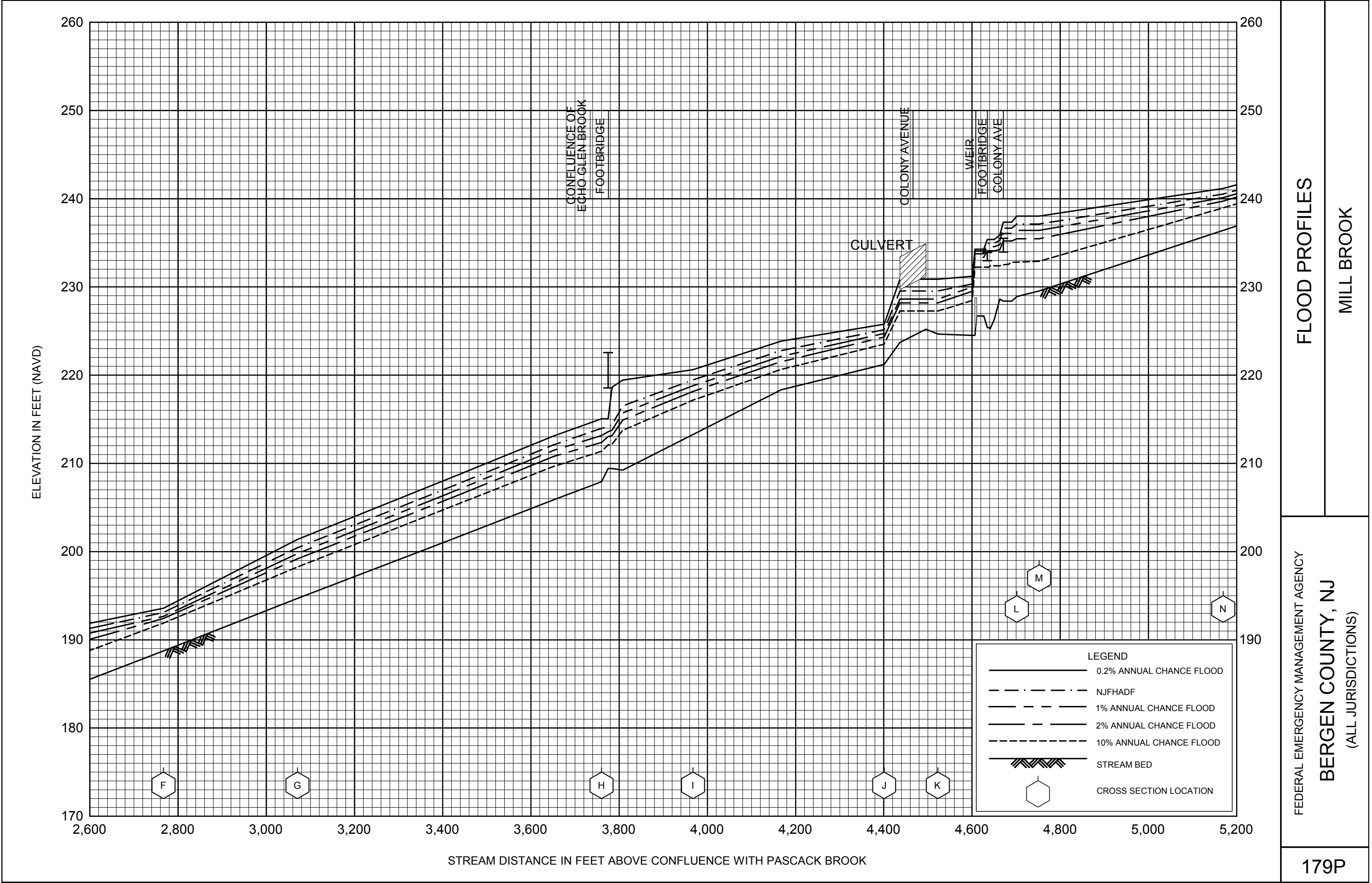
FLOOD PROFILES

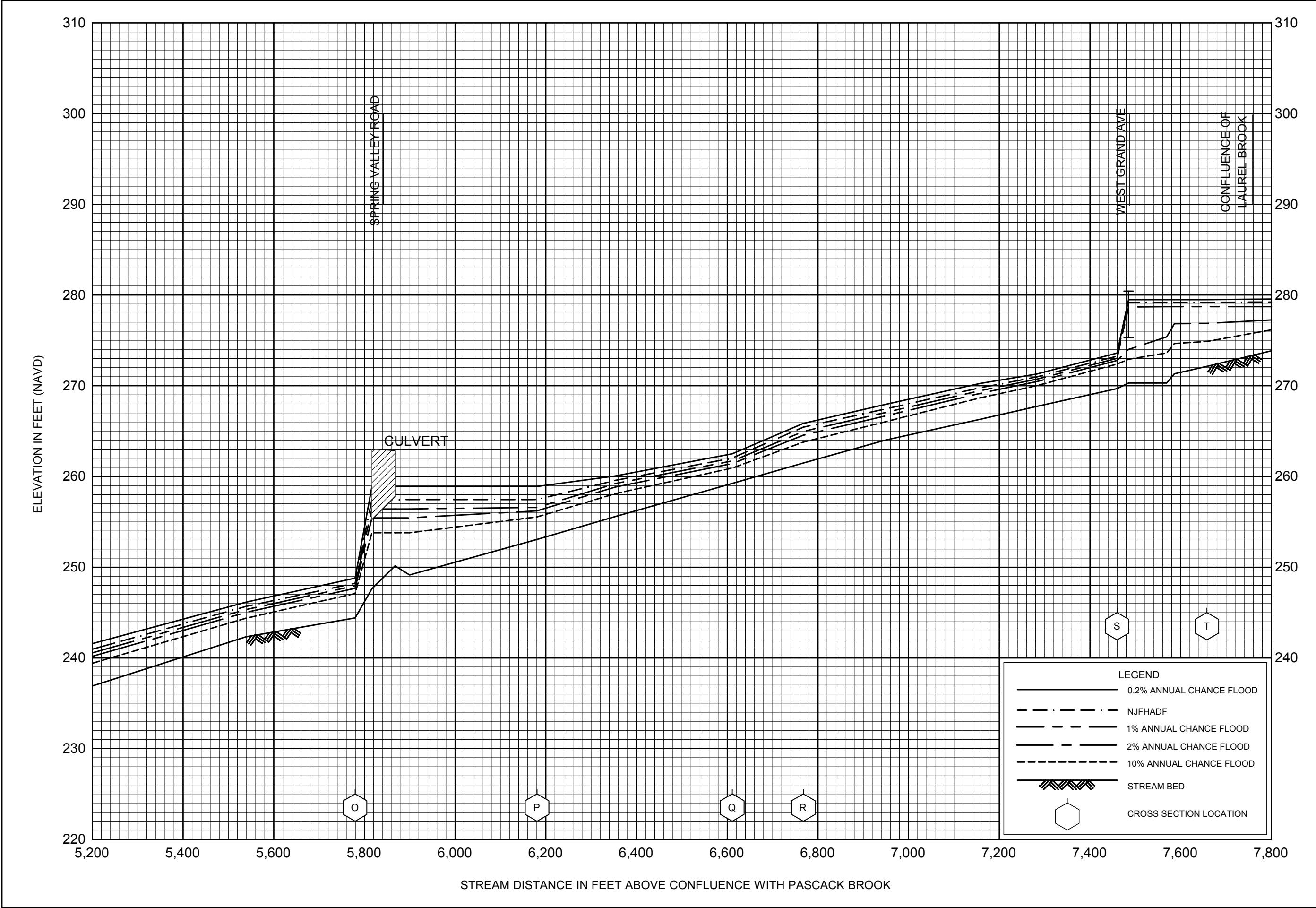
MILL BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ

(ALL JURISDICTIONS)





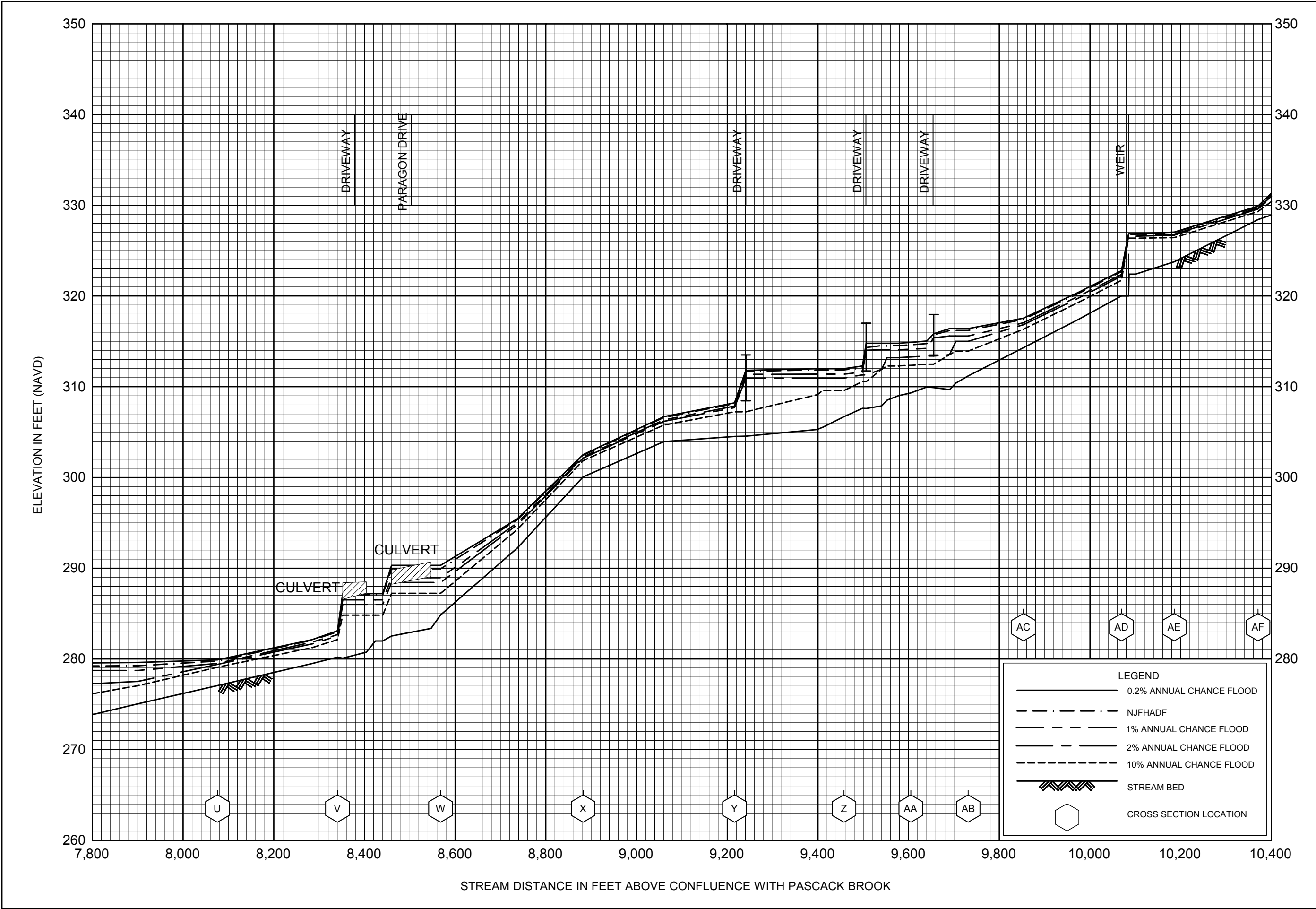
FLOOD PROFILES

MILL BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ

(ALL JURISDICTIONS)

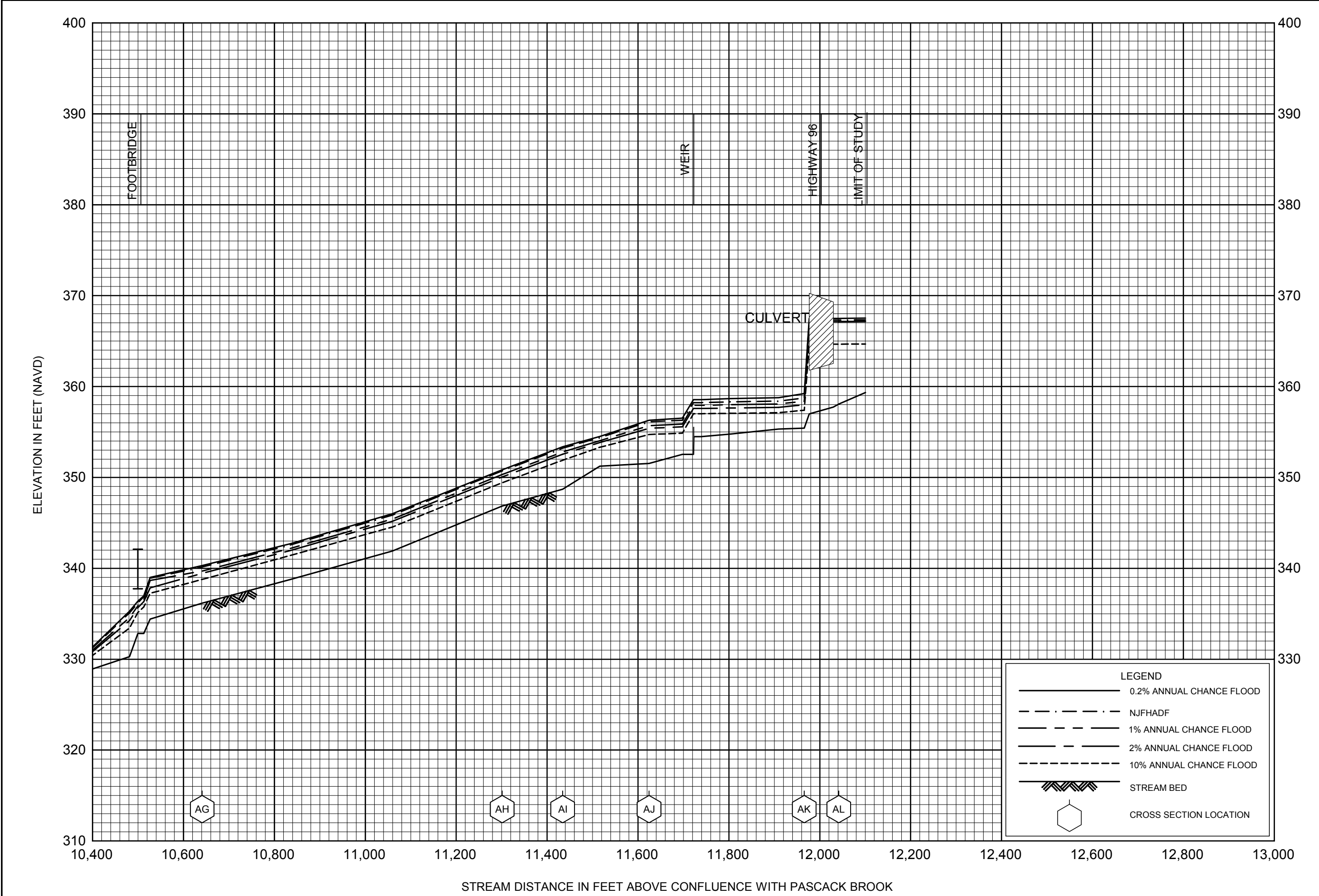


FLOOD PROFILES

MILL BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY

BERGEN COUNTY, NJ
(ALL JURISDICTIONS)



FLOOD PROFILES

MILL BROOK

FEDERAL EMERGENCY MANAGEMENT AGENCY
BERGEN COUNTY, NJ
(ALL JURISDICTIONS)